







*Vigilius L. B. de Firmian.*







Math P 644

Matthesi Tabulae Logarithmorum  
sinuum tangentium  
334.

R











Zu der  
Trigonometrie und Ausziehung  
der Wurzeln  
Nöthige

# Tafeln,

Darinnen  
Die Sinus und Tangentes  
für jede Minute des Quadrantens

Nebst  
Ihren Logarithmis und den  
Logarithmis der gemeinen Zahlen  
von 1. biß 10000.

Wie auch  
Die Quadrat- und Cubic-Zahlen von  
1. biß 1000. enthalten sind,  
Nebenst

Einer allgemeinen Regel, alle geradeli-  
nichte und Sphärische Triangel auf-  
zulösen, herausgegeben

Von  
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Zalle im Magdeburgischen,  
Zu finden in der Kengerischen Buchhandl. 1728



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München





## Vorrede.

**A**uf die Trigonometrie ist man durch die Astronomie gebracht worden. Denn als sich einige scharfsinnige Männer, welche die Natur mit grossem Verstande und hoher Tugend für andern begabet, auf die Betrachtung des Himmels geleet; haben sie bald wahrgenommen, daß ohne Auflösung der Triangel in der Astronomie nichts gründliches zu erforschen sey. Daher hat Hipparchus, der sich so wohl um die Astronomie verdienet gemacht, daß ihn nicht allein die Alten biß in den Himmel erhoben, sondern auch die spä-  
1. Nachwelt ohne Aufhören rühmen wird, so lange man Wahrheit und Tugend etwas gelten läset, die Lehre von den Sehnen im Circul, wie uns Theon dessen berichtet, in zwölf Büchern abgehandelt, daraus Ptolemæus in das erste Buch seines Almagesti so viel gebracht,

X 2



## Vorrede.

bracht, als er die übrigen zu verstehen nöthig erachtet. Nämlich die Alten schlossen von den Winkeln auf die Seiten, vermöge der Sehnen der Circul-Bogen und theilten, wie aus des Ptolemæi Almagesto zu ersehen, den halben Diameter des Circuls in 60. gleiche Theile oder Grade, jeden Grad aber von neuem in seine 60. Minuten und Secunden. In solchen Theilen des halben Diameter hat Ptolemæus Tafeln über die Sehnen von halben zu halben Graden des Quadrantens ausgerechnet, welche Orontius Finæus, Mathematicum Professor zu Paris im Anfange des sechzehenden Jahrhunderts, bis auf jede Minute eines jeden Grades erweitert. Allein schon lange vor ihm hatte Johannes Regiomontanus, ein um die Mathematick, absonderlich die Astronomie, hochverdienter Mann, zu Auflösung der Triangel viel bessere Tafeln verfertiget. Denn als die Saracenen zuerst bedachten, daß die halben Sehnen eben die Verhältniß unter einander hätten, welche die ganzen haben, und daher die Trigonometrische Rechnungen durch kleinere

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## Vorrede.

re Zahlen erleichtert werden könnten; haben sie die Sinus in die Trigonometrie eingeführet, jedoch ihre Verhältniß gegen den halben Diameter mit dem Ptolemæo in sechzigtheiligen Brüchen ausgedrucket. Regiomontanus nun hat nach ihrem Exempel die Sinus den Sehnen vorgezogen, aber damit er die verdrüßliche sechzigtheiligen Brüche vermiede, dem halben Diameter 60 000 000 Theile gegeben. Ja da er nach der Zeit vermerckte, es würden die Tafeln noch bequemer seyn, wenn man den halben Diameter in 100000000 Theile theilete; so hat er sich nicht verdrüßten lassen von neuem andere Tafeln auszurechnen, darinnen der Sinus für jede Minute eines Grades in zehentheiligen Brüchen angesetzt wird. Eben dieser Regiomontanus hat noch eine andere Tafel verfertiget, die er Tabulam Fœcundam genennet, darinnen der Cosinus in solchen Theilen angesetzt wird, deren 100000000. einem jeden Sinui zukommen. Ja Georgius Joach. Rheticus hat auch den halben Diameter des Circuls *AC* (Fig. I.) in solchen Theilen

X 3

aus



## Vorrede!

ausgerechnet, deren ein jeder Sinus *AD* oder *DC* 100000000. hat. Allein da auf solche Art die zur Trigonometrie gehörige Tafeln viel zu weitläufftig werden, wie aus dem Opere Palatino de Triangulis, welches Rheticus angefangen, Valentinus Otto vollendet, zur gnüge erhellet; so läffet man sich mit den blossen Sinibus in solchen Theilen gerechnet, begnügen, deren der halbe Diameter 1000000 hat, ausser daß man die Rechnung in einigen Fällen zu erleichtern die Tangentes und zuweilen auch wohl die Secantes mit dazu nimmet. Maginus hat gar die Sinus versos mit hinzugesetzt. Rheticus hat diese Tafeln nur von zehen zu zehen Secunden; Pitiscus aber in seinem grossen Canone auf alle Secunden einer jeden Minute gerechnet. Sie haben aber eine ganz andere Gestalt gewonnen, da Johann Neper, ein Schottländischer Baron, A. 1614. die logarithmos in die Trigonometrie eingeführet. Er hat aber für den logarithmum sinus totius oder des halben Diameter's 0 angenommen, so daß die logarithmi immer abnehm-

nehm-



## Vorrede.

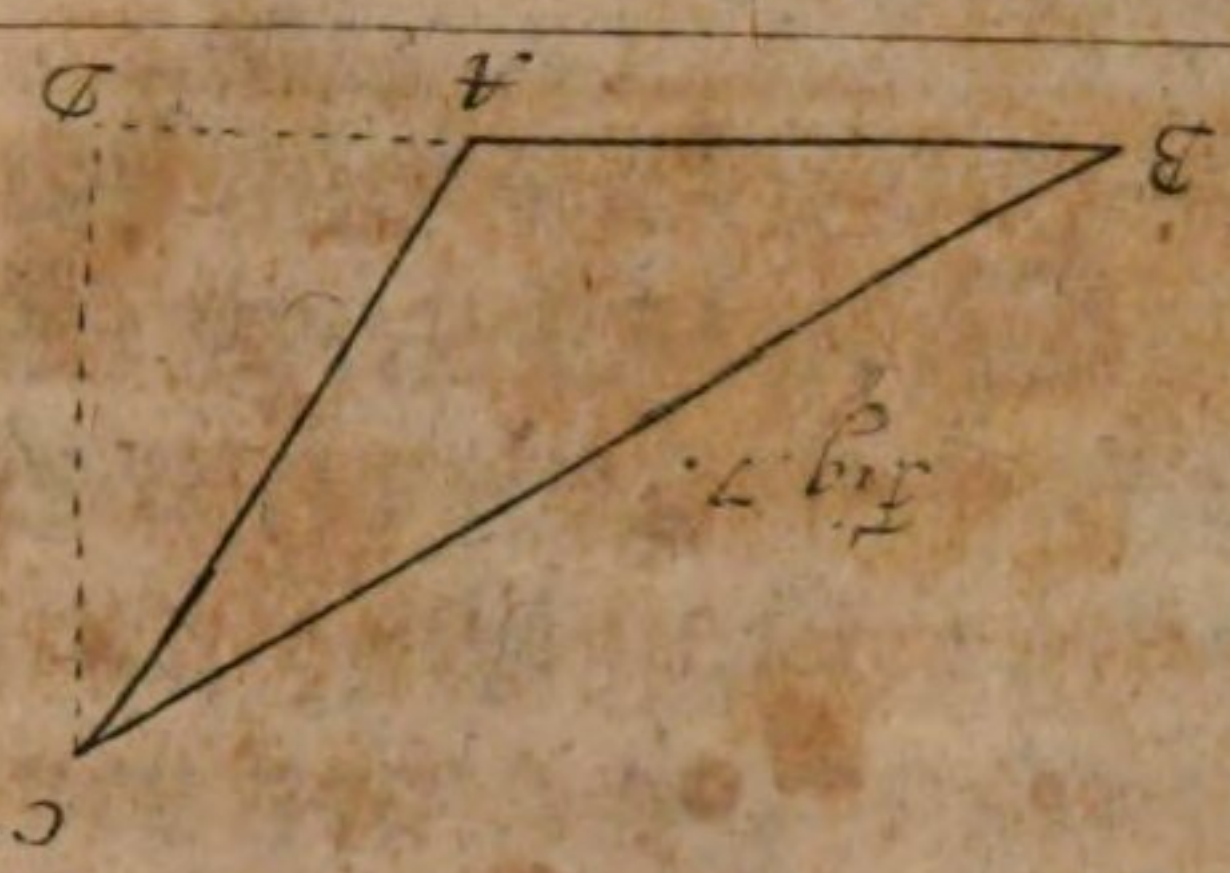
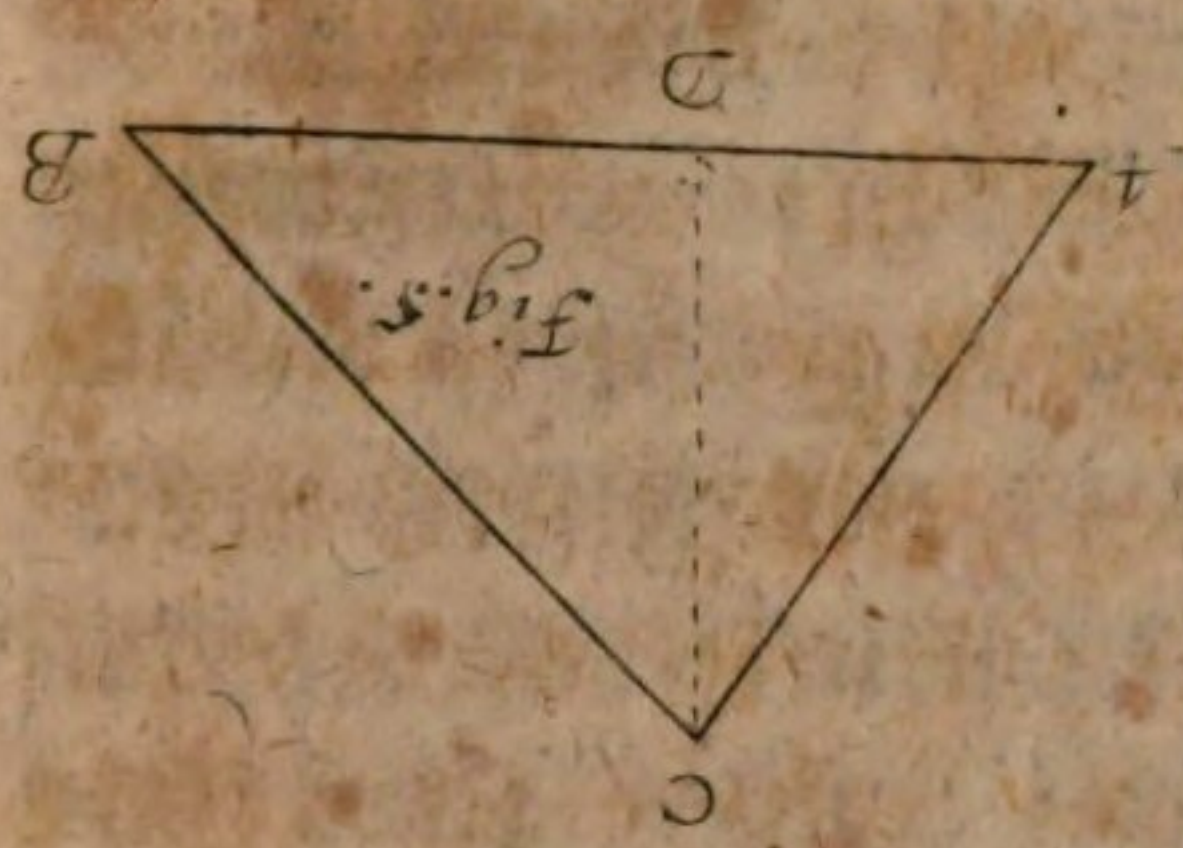
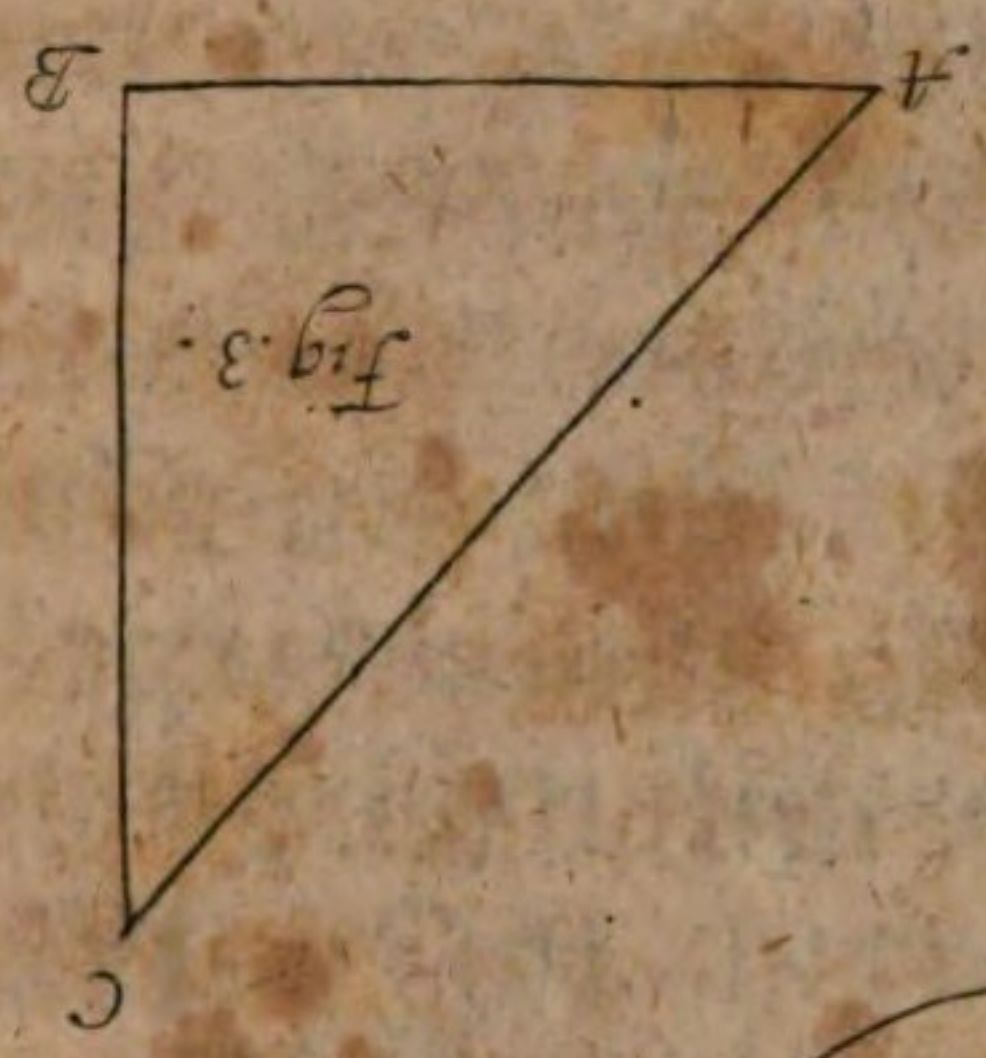
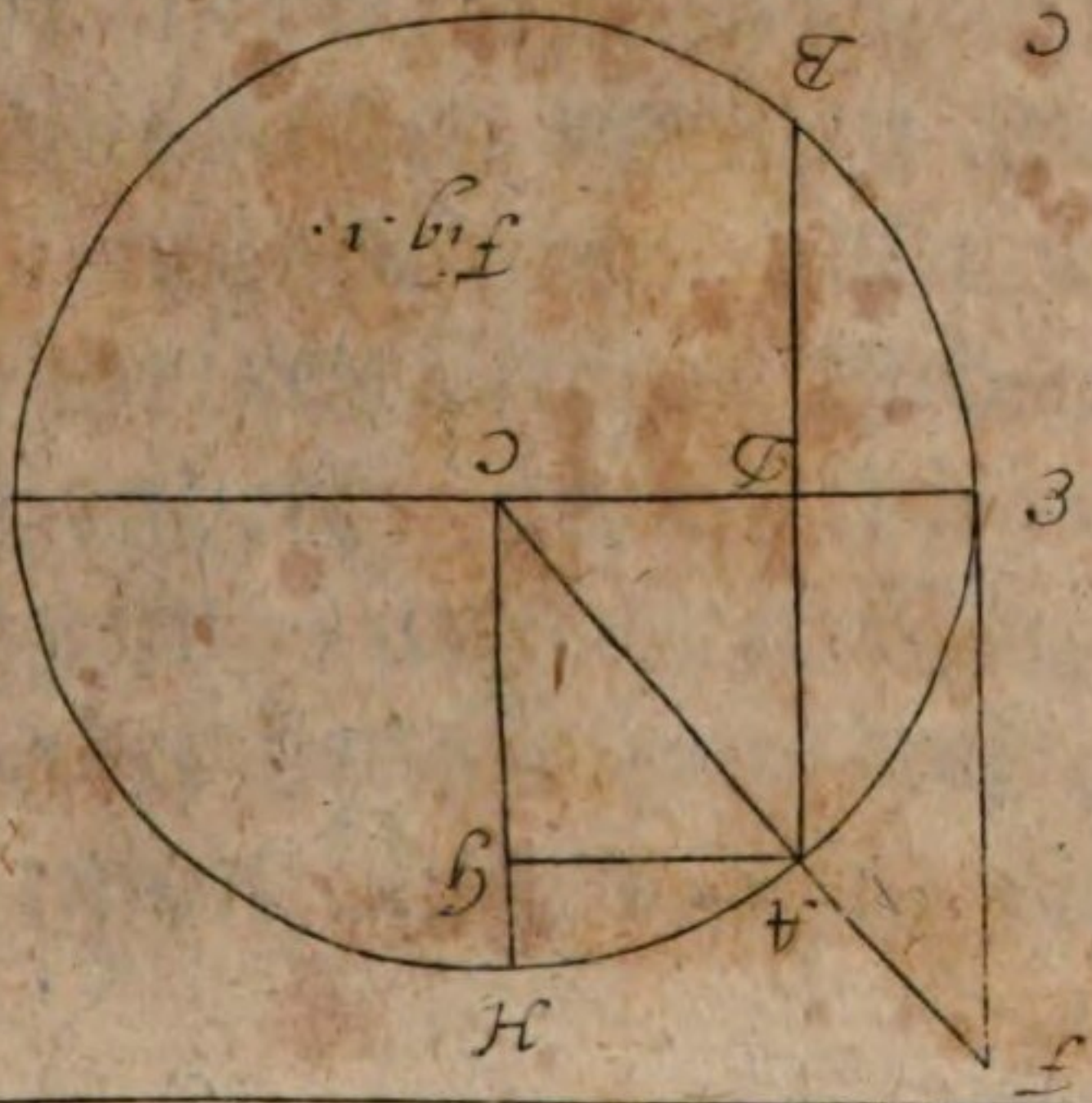
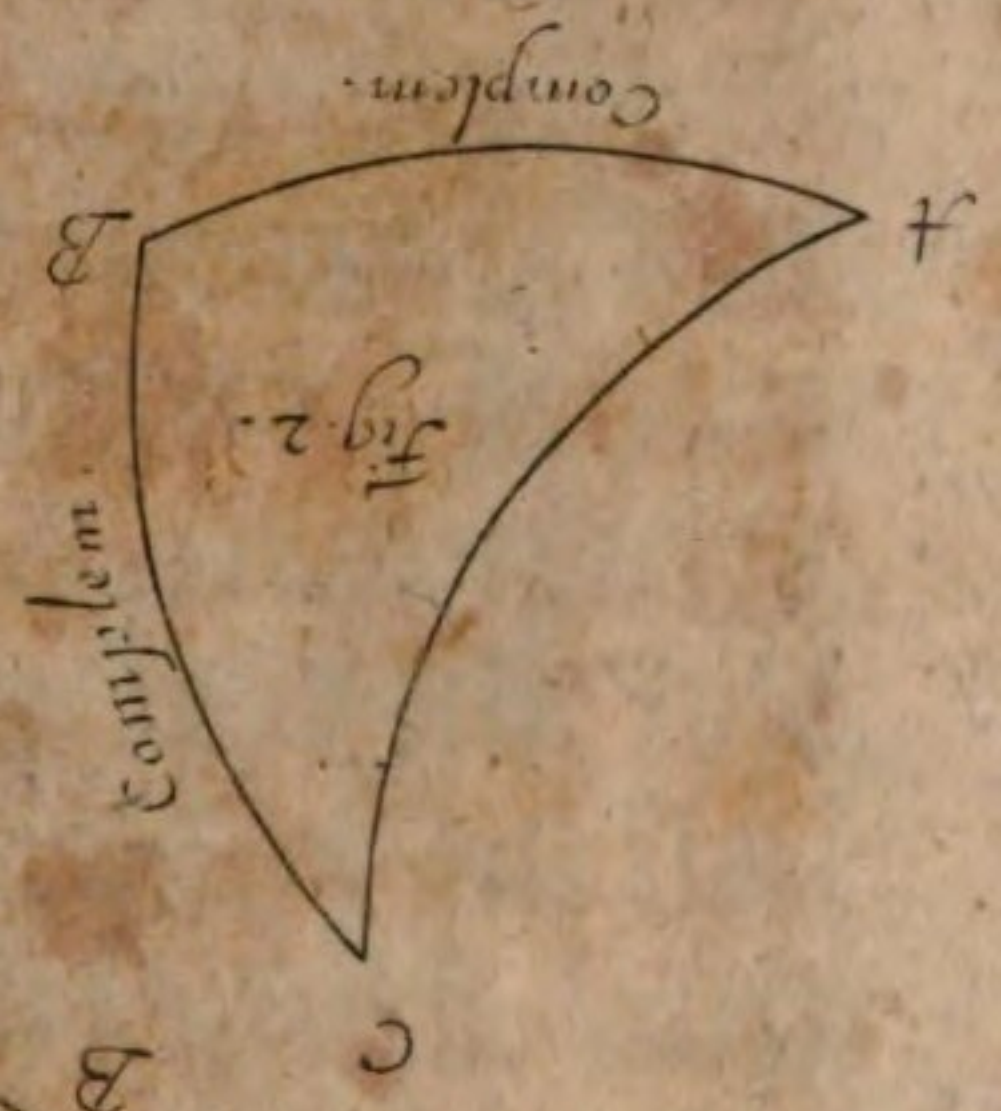
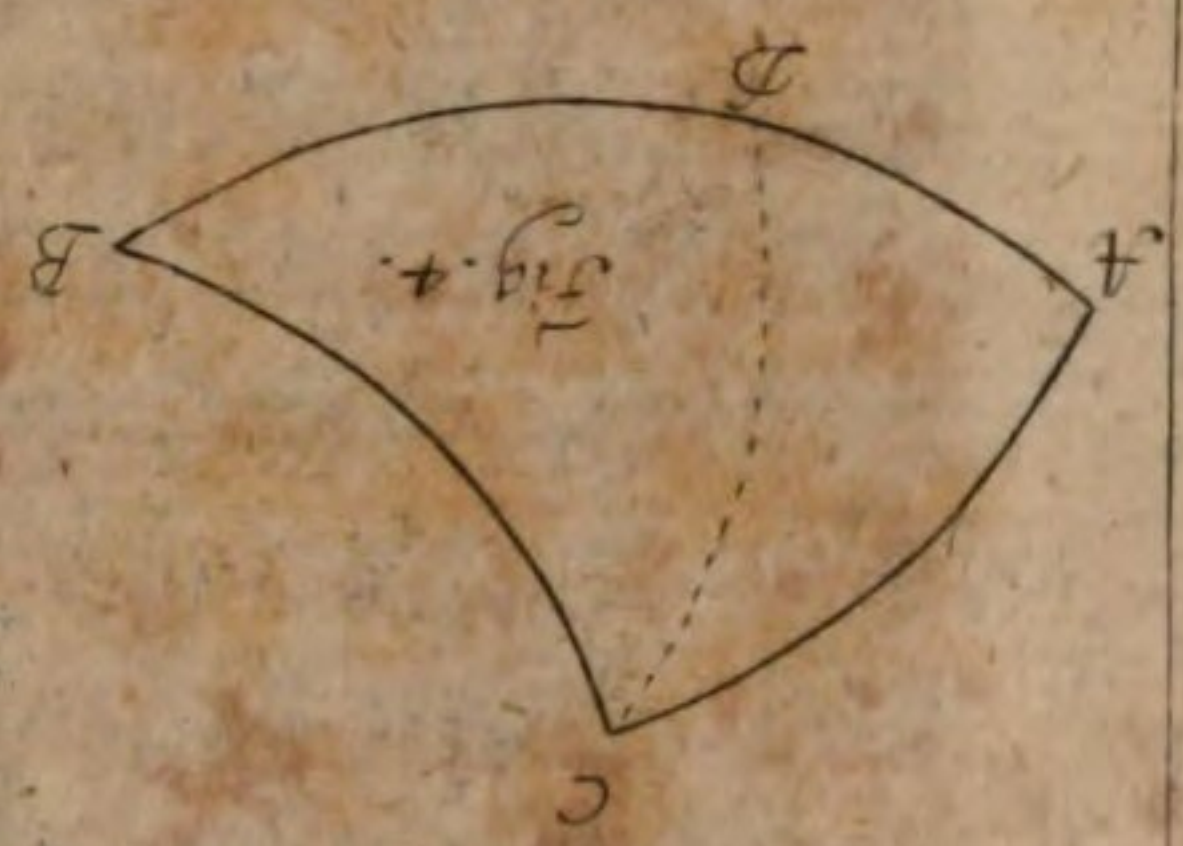
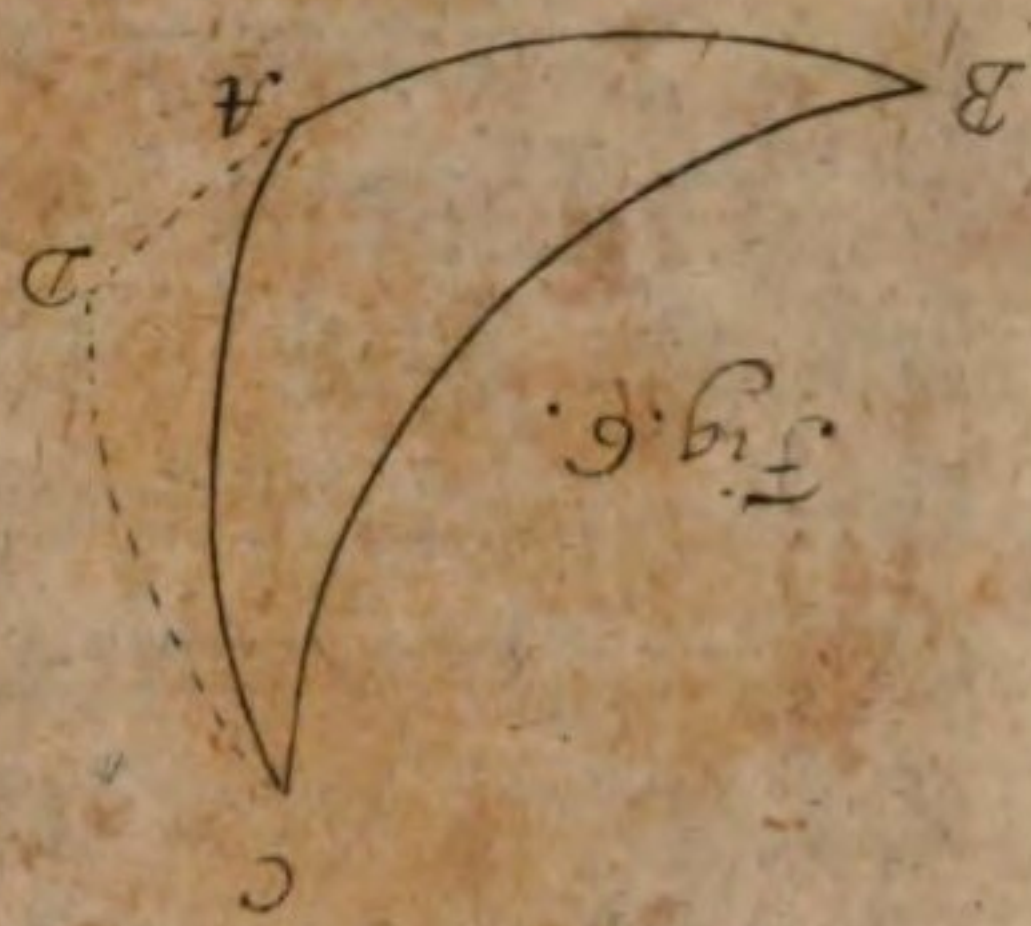
nehmen, indem die Sinus zunehmen. Diese Tafeln, welche der sinnreiche Urheber derselben Canonem Mirificum genennet, hat Benjamin Ursinus bis von zehen zu zehen Secunden erweitert. Unerachtet aber Neper nicht ohne Ursache für den logarithmum sinus totius eine Nulle angenommen, damit nemlich in Auflösung der rechtwinklichten Triangel kein addiren und subtrahiren nöthig wäre, so offte man den sinum totum entweder addiren oder subtrahiren soll; so hat er doch selbst hernach wahrgenommen, daß die logarithmi viel bequemer fallen würden, wenn der logarithmus von 1. eine Nulle wäre und also die logarithmi zunähmen, indem die Zahlen zunehmen. Dannenhero hat Henricus Briggs, Professor Geometriæ zu Oxfurt, einen neuen Canonem logarithmorum für die gemeinen Zahlen von 1. bis 20000 und von 90000 bis 100000. verfertigt und mit seiner Arithmetica Logarithmica an. 1624. herausgegeben: welche bald darauf, nemlich an. 1628. Adrianus Vlacq von neuem wieder aufgelegt und die loga-



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rithmos von 20000 bis 90000 vor sich dazu gethan. Zwar hatte Briggs auch für die sinus und tangentes auf alle hundert Theile eines Grades die neuen logarithmos gerechnet, welche Henricus Gellibrand in der Trigonometria Britannica an. 1633. nach seinem Tode publiciret, allein weil die zehentheiligen Brüche der Grade von den Mathematicis noch nicht angenommen worden, so hat Vlacq die logarithmos nach der neueren Art von zehen zu zehen Secunden in eben demselben Jahre herausgegeben. Für jede Secunden hat mit grosser Mühe der Seel. Herr von Löser, der nicht weniger wegen seiner grossen Gelahrheit, als seines alten und vornehmen Geschlechtes wegen befandt ist, dieselben gerechnet; allein der frühzeitige Todt hat es gehindert, daß er das Werck nicht völlig zu stande gebracht. Solte sich aber jemand finden, der es an das Tagelicht bringen wollte: so würden die Hochadelichen Erben dieses nützliche Werck der gelehrten Welt nicht mißgönnen. Ich habe nach gewöhnlicher Art Vlacqs Tafeln











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feln auf die Minuten reduciret und die drey letzten Zahlen zur Rechten weggelassen, dergestalt, daß ich die letzte Zahl um 1. vermehret, wenn über 550 weggeworffen worden. Und nach den grossen Tafeln des Vlacqs habe ich die logarithmos sinuum und tangentium corrigiret; nach diesem aber selbige gegen gar viele Auflagen gehalten, damit ich so wohl durch Hülffe der Logarithmischen Differentien, so bey dem Vlacq stehen, als nach der von ihm in der Vorrede vorgeschriebenen Methode finden möchte, in welcher Auflage der Fehler steckte. Die Logarithmos für die gemeine Zahlen habe ich aus des Briggii Arithmetica Logarithmica genommen und sie wie die vorigen um einige Zahlen verkleinert. Im corrigiren habe ich eben den Fleiß, wie in den vorigen angewendet. Die Logarithmos habe ich von ihren zugehörigen sinibus und tangentibus abgesondert, damit die cosinus und cotangentes auf einer Seite stünden und daher der Cosinus mit dem Sinu gleich in die Augen fiel, folgendes  
im



## Vorrede.

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im Auffuchen nicht der geringste Verdruß übrig bliebe. Man könnte zwar in der Trigonometrie die sinus und tangentes gar entrathen und mit den logarithmis allein vergnügen seyn: jedoch weil sie in vielen andern Fällen nützlich sind, ich auch in meinen Anfangs-Gründen mich hin und wieder auf dieselben berufen, so habe sie nicht gar weglassen wollen. Denn ich habe diese Tafeln zu dem Ende herausgegeben, damit sie denen Anfangs-Gründen der Mathematischen Wissenschaften beygefüget werden könnten, in welchen sie gar viel gebraucht werden. Derowegen habe ich auch die Tafel der Quadrat- und Cubic-Zahlen mit hinzugesetzt, damit sie so wohl zur Zusammensetzung, als zur Auflösung derselben dienen möchten, welches in vielen Orten der Anfangs-Gründe erfordert wird. Endlich weil die Anfänger wegen der vielen Regeln für der Trigonometrie, sonderlich der Sphärischen, einen Abscheu haben; so gebe ich hier ihnen eine einige Regel, dadurch sie nebst einigen wenigen Anmerkungen

gen



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gen für einige besondere Fälle alle Aufgaben beyder Trigonometrie auf einerley Art auflösen können, also daß nunmehr klahr ist, es brauche nicht mehr Mühe die Sphärischen, als die geradelinichten Triangel aufzulösen. Es hat längst **Neper** bey seinem Canone mirifico eine allgemeine Regel alle Sphärische Triangel aufzulösen gegeben: Allein ich weiß nicht, wie sie, absonderlich in unsern Landen, so gar ins Vergessen kommen. Der Herr Professor Krüger in Bremen hat (welches ich hier mit Danck rühme) mir den ersten Wincß davon gegeben. Ehe mir aber des **Neper's** Canon mirificus und des **Norwoods** Trigonometrie or the doctrine of triangles, darinnen er dieselbe Regel umständlicher erklähet und erwiesen hat, zu Händen kam; habe ich mich selbst eine dergleichen Regel zu suchen bemühet und auf die Art und Weise, die ich in meinen Elementis Matheseos zeige, eine gefunden, die wenig von der Neperischen unterschieden ist. Als ich aber ferner nachdachte, ob nicht eine Gleichheit zwischen  
der



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der Auflösung der geradelinichten und der Sphärischen Triangel zu finden sen, habe ich nicht ohne sonderbahres Vergnügen wahrgenommen, daß durch einerley Regel alle Aufgaben in beyder Trigonometrie aufgelöset werden können. Ich habe aber die Regel behalten, wie sie von mir gefunden worden; weil dadurch die Gleichheit zwischen beyden Trigonometrien besser als durch die Neperische erhellet. Wolte jemand sagen, ich hätte aus dieser Absicht die Neperische nur verändert; so werde ich mir es auch gefallen lassen, massen ich keinen andern Lohn vor meine Arbeit suche, als daß ich andern gedienet habe.





# Gebrauch der Tafeln.

§. 1.

**I**n der Trigonometrie findet man aus drey gegebenen Theilen eines Triangels, er mag recht-wincklicht, oder sphärisch seyn, die drey übrigen, indem man von den Sinibus und Tangentibus der Winckel auf die Seiten der geradelinichten, oder auf die Sinus und Tangentes der Seiten in den sphärischen schliesst. Daher hat man in Trigonometrischen Rechnungen die Tafeln der Sinuum und Tangentium nöthig.

§. 2.

Es ist aber des Winckels  $ACD$  Sinus  $AD$  Fig. 1. die Helffte der Sehne  $AB$ , die dem Bogen  $AEB$  unterzogen wird, dessen Helffte  $AE$  das Maaß des Winckels  $ACD$  ist. Der Cosinus  $AG$  aber ist der Sinus des Winckels  $ACH$ , der mit dem vorigen  $ACE$  90. Grad machet.

§. 3.

Die Tangens des Winckels  $ACD$  ist die gerade Linie  $EF$ , so auf dem halben Diameter  $CE$ , damit das Maaß des Winckels beschrieben worden, perpendicular steht und die Secantem  $FC$  in  $F$  erreicht. Die Cotangens aber ist die Tangens des Winckels  $ACH$ , der mit dem vorigen  $ACD$  90. Grad machet.

§. 4.

Der halbe Diameter  $EC$ , dessen gedacht worden, heisset der Sinus totus, weil er der gröste unter  
 )( )(                      allen



allen und die übrigen als seine Theile angesehen werden.

§. 5.

Nemlich in den Tafeln der Sinuum und Tangentium findet man, wie viel solcher Theile einem jeden derselben zugehören, dergleichen der Sinus totus 10000000 hat.

§. 6.

Da man nun alle Aufgaben bey der Trigonometrie durch die Sinus und Tangentes auflösen kan: so könnte man mit den Tafeln derselben einig und allein zu frieden seyn. Allein da die Multiplication und Division durch grosse Zahlen sehr beschwehrlich ist, so sind die Logarithmischen Zahlen an ihre Stelle kommen, als welche das multipliciren in addiren; das dividiren in subtrahiren verkehren. Von ihrer Natur und Beschaffenheit habe ich in meinen Anfangs-Gründen geredet. Darinnen ich auch die Ausrechnung aller zur Trigonometrie gehörigen Tafeln abgehandelt.

§. 7.

Wenn wir aber in Trigonometrischen Rechnungen die Logarithmos Sinuum und Tangentium brauchen, so müssen auch die Seiten der geradelinichten Triangel durch Logarithmos ausgedrucket werden. Zu dem Ende ist die Tafel der Logarithmorum für gemeine Zahlen ausgerechnet worden.

§. 8.

Damit nun erhelle, wie durch die Logarithmischen Tafeln alle geradelinichte und sphärische Triang



Triangel aufgelöst werden; so will ich zuerst von den rechtwinklichten, hernach von den schiefwinklichten mit wenigem reden.

§. 9.

In jeden rechtwinklichten Triangel sind über den rechten Winkel, auf den wir hier nicht sehen, fünf Theile, nemlich zwey schiefe Winkel A und C und drey Seiten AB, AC, BC. Von diesen werden in jedem Falle zwey gegeben, das dritte wird gesucht. Z. E. Es wird gegeben die Hypothenuse AC mit dem schiefen Winkel A, man soll die ihm entgegenstehende Seite BC suchen. Wenn man nun acht hat, wie diese Theile auf einander folgen; so wird man inne werden, daß eines von ihnen in der Mitten stehet, die übrigen beyde entweder an demselben anliegen, oder von ihm durch ein anderes Theil abgesondert sind. Z. E. In dem gegebenen Falle ist BC der mittlere Theil: von ihm wird AC durch den Winkel C; hingegen der Winkel A durch die Seite AB abgesondert, denn auf den rechten Winkel hat man, wie ich schon erinnert, hier nicht zu sehen. Hingegen wenn die beyden Seiten AB und BC gegeben werden, und man soll den Winkel A suchen; so ist die Seite AB der mittlere Theil und die übrigen A und BC liegen an demselben zu beyden Seiten. Die Theile zur Seiten wollen wir in dem ersten Falle die Anliegenden; in dem andern aber die Abgesonderten nennen.

Fig. 2.  
3.

§. 10.

Die Anfänger haben sich nun vor allen Dingen darinnen zu üben, daß sie die Theile der Triangel,

X X 2

angel,



angel, so in Trigonometrischen Aufgaben vorkommen, solchergestalt von einander unterscheiden lernen; so wird es ihnen nicht schwer fallen alle Aufgaben beyder Trigonometrie von rechtwinklichten Triangeln durch diese allgemeine Regel aufzulösen,

**Der Sinus totus mit dem Cofinu des mittleren Theiles ist gleich den Sinibus der abgesonderten und den Cotangentibus der anliegenden.**

wenn sie nur mercken, daß man in sphärischen Triangeln für die beyden Seiten AB und BC ihre Complementary zu 90. Graden oder dem Quadranten; in den geradelinichten aber vor die Sinus und Tangentes die Seiten selber annimmt.

§. II.

Es sey z. E. gegeben die Hypothenuse AC mit dem anliegenden Winckel A, man soll die ihm entgegenstehende Seite BC finden. Da nun hier BC der mittlere Theil ist, hingegen AC und A zu beyden Seiten von ihm abgesondert sind, so ist nach der allgemeinen Regel, der Sinus totus mit dem Cofinu des Complementes von BC, das ist, mit dem Sinu der Seite BC, den Sinibus der Hypothenuse AC und des schiefen Winckels A gleich. Derowegen wenn es ein sphärischer Triangel ist, so wird von den Sinibus der Hypothenuse AC und des schiefen Winckels A der Sinus totus abgezogen, damit der Sinus der Seite BC übrig bleibt. Ist es aber ein rechtwinklichter Triangel, so wird von der Hypothenuse AC und dem Sinu des Winckels A der Si-



nus totus abgezogen, damit die Seite BC übrig bleibt.

§. 12.

Der Gebrauch der Regel wird überaus leicht, wenn sie in einem jeden vorkommenden Falle in eine Analytische Gleichung gebracht wird: denn so lehret der bloße Anblick derselben, was zu thun ist. Als in unserem Exempel ist

$$\text{Sin. tot.} \dagger \text{Sin. BC} = \text{Sin. AC} \dagger \text{Sin. A.}$$

Derowegen damit man den Sinum artificialem, oder Logarithmum Sinus von BC bekomme; muß der Sinus totus von den Sinibus der Seite AC und des Winkels A abgezogen werden: welches der erste Anblick gleich zu erkennen giebet.

§. 13.

Durch eben diese Regel können alle schiefwincliche Triangel (einen einigen Fall ausgenommen) aufgelöset werden, wenn man sie vermittlest des Perpendiculars DC in zwey rechtwincliche resolviret. Jedoch da auf solche Art besonders in einigen Fällen die Rechnung ohne Noth weitläufftig würde: so sind noch folgende Anmerkungen zu behalten.

§. 14.

Es ist nemlich zu wissen, daß in jedem sphärischen Triangel die Sinus der Seiten, in jedem geradelinichten die Seiten selber den Sinibus der ihnen entgegen stehenden Winkel gleich sind, das ist, wenn man sich der Logarithmischen Zahlen bedienet, der Sinus einer Seite AC mit dem Sinu des anliegenden Winkels A dem Sinui der andern Seite BC

X X 3

mit



mit dem Sinu des bey ihr anliegenden Winckels B gleich sey. Durch diese Regel wird in jedem Triangel aus zwey gegebenen Seiten und dem einer entgegen stehenden Winckel derjenige Winckel gefunden, welcher der anderen entgegen steht, oder auch aus zwey Winckeln und der Seite, so einem gegen über steht, die dem anderen entgegen gesetzte Seite.

§. 15.

Fig. 4. In den übrigen Fällen wird der schiefwinckliche Triangel durch das Perpendicul DC in zwey rechtwinckliche resolviret und durch die allgemeine Regel das eine Stücke AC von der Grundlinie AB gesucht, welches entweder von ihr abgezogen, oder zu ihr addiret DB giebet. Worauf durch folgende Regel, welche aus der allgemeinen stießet,

Der mittlere Theil in dem rechten Triangel mit dem zur Seiten im Lincken ist gleich dem mittleren Theile im Lincken mit dem zur Seiten im Rechten.

Es wird aber das Perpendicul DC für den anderen Theil zur Seite gehalten, welches man also nicht erst nöthig hat durch die allgemeine Regel, wie insgemein geschiehet, zu suchen. Es ist aber aus eben der allgemeinen Regel klar, ob man die Tangentes, oder die Sinus brauchen solle.

§. 16.

Fig. 4. Es wird z. E. im Triangel ACB der Winckel A mit den Seiten AC und AB gegeben, man soll den Winckel B finden. Da nun in dem bey D rechtwincklichten Triangel ACD der mittlere Theil



Theil A ist, die beyden Seiten aber AC und AD beyderseits anliegen; so ist vermöge der allgemeinen Regel der Sinus totus mit dem Cosinu des Winkels A gleich der Cotangenti von der Hypothenuse AC und der Cotangenti des Complementes, das ist, der Tangenti von der Seite AD. Dannenhero wird AD gefunden, wenn man von dem Sinu toto und dem Cosinu des Winkels A die Cotangentem der Hypothenuse AC abziehet. Subtrahiret man nun ferner das Stücke AD von der Grundlinie AB, so bleibt das andere Stücke DB übrig. Wenn man nun DC für den einen Theil zur Seite in beyden Triangeln annimmt, so ist im Lincken ACD die Seite AD der mittlere Theil, und der Winkel A lieget an ihm an; hingegen im rechten DCB ist DB der mittlere Theil und der Winkel B lieget abermal an ihm an. Derowegen muß man bey den Winkeln A und B die Cotangentes brauchen; Solchergestalt ist (§. 15.) der Sinus des einen Stückes der Grundlinie AD mit der Cotangente des Winkels B dem Sinui des andern DB mit der Cotangente des Winkels A gleich. Damit nun der verlangte Winkel B gefunden werde, so muß man den Sinum des Stückes AD von dem Sinu des andern DB und der Cotangente des Winkels A abziehen.

§. 17.

Endlich aus drey gegebenen Seiten in einem Fig. 4. schiefwinklichten Triangel wird der Winkel, A gefunden, wenn man ihn wie vorhin vermittelst des Perpendiculars DC in zwey rechtwinklichte resol-



resolviret und hierauf inferiret: Wie die Tangens der halben Grundlinie AB zur Tang. der halben Summe der beyden Seiten AC und CB; so verhält sich die Tangens von der halben Differenz selbiger Seiten zur Tangenti der halben Differenz beyder Stücke AD und BD. Wenn nun die gefundene halbe Differenz von der halben Grundlinie AB abgezogen wird, so bleibt das kleine Stücke AD übrig. Addiret man sie aber dazu, so kommet das grosse Stücke DB heraus. Da nun in dem bey D rechtwinclichem Triangel ACD die Seite AD mit der Hypothenuse AC beandt ist; so kan man den verlangten Winckel A durch die allgemeine Regel finden. Es findet aber eben diese Regel bey den geradelinichten Triangeln statt, wenn man vor die Tangentes die Seiten selber annimmt.

§. 18.

Dieses ist der vornehmste Gebrauch der Logarithmischen Tafeln. Von anderem vielfältigem Nutzen würde zu weitläufftig seyn hier zu reden.

§. 19.

Endlich die Tafeln der Quadrat- und Cubic Zahlen habe ich zu dem Ende vornemlich mit beydrucken lassen, daß sie in Ausziehung beyder Wurkeln eine Erleichterung geben möchten: massen man durch dieselben durch den ersten Angriff bald drey Theile der Wurkeln auf einmal finden kan.



CANON  
TRIANGU-  
LORUM,

Continens

LOGARITHMOS  
SINUUM

ET

TANGENTIVM  
AD SINGULA MINUTA PRIMA.



TERMINUM  
CAYON

FOGARITIMOS  
SINUM  
COMBES

ET  
TANGENTIVM

AD SECTA MINUTA PRIMA



| Minut. | 0. Grad.  |            | Minut. | 89. Grad.   |            |
|--------|-----------|------------|--------|-------------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin.   | Log. Tang. |
| 0      | 0         | 0          | 60     | 10.00000000 | Infin.     |
| 1      | 6.4637261 | 6.4637261  | 59     | 9.99999999  | 13.5362739 |
| 2      | 6.7647561 | 6.7647562  | 58     | 9.99999999  | 13.2352438 |
| 3      | 6.9408473 | 6.9408475  | 57     | 9.99999998  | 13.0591525 |
| 4      | 7.0657860 | 7.0657863  | 56     | 9.99999997  | 12.9342137 |
| 5      | 7.1626960 | 7.1626964  | 55     | 9.99999995  | 12.8373036 |
| 6      | 7.2418771 | 7.2418778  | 54     | 9.99999993  | 12.7581222 |
| 7      | 7.3088239 | 7.3088248  | 53     | 9.99999991  | 12.6911752 |
| 8      | 7.3668157 | 7.3668169  | 52     | 9.99999988  | 12.6331831 |
| 9      | 7.4179681 | 7.4179696  | 51     | 9.99999985  | 12.5820304 |
| 10     | 7.4637255 | 7.4637273  | 50     | 9.99999982  | 12.5362727 |
| 11     | 7.5051181 | 7.5051203  | 49     | 9.99999978  | 12.4948797 |
| 12     | 7.5429065 | 7.5429091  | 48     | 9.99999974  | 12.4570909 |
| 13     | 7.5776684 | 7.5776715  | 47     | 9.99999969  | 12.4223285 |
| 14     | 7.6098530 | 7.6098566  | 46     | 9.99999964  | 12.3901434 |
| 15     | 7.6398160 | 7.6398201  | 45     | 9.99999959  | 12.3601799 |
| 16     | 7.6678445 | 7.6678492  | 44     | 9.99999953  | 12.3321508 |
| 17     | 7.6941733 | 7.6941786  | 43     | 9.99999947  | 12.3058214 |
| 18     | 7.7189966 | 7.7190026  | 42     | 9.99999940  | 12.2809974 |
| 19     | 7.7424775 | 7.7424841  | 41     | 9.99999934  | 12.2575159 |
| 20     | 7.7647537 | 7.7647610  | 40     | 9.99999927  | 12.2352390 |
| 21     | 7.7859427 | 7.7859508  | 39     | 9.99999919  | 12.2140492 |
| 22     | 7.8061458 | 7.8061547  | 38     | 9.99999911  | 12.1938453 |
| 23     | 7.8254507 | 7.8254604  | 37     | 9.99999903  | 12.1745396 |
| 24     | 7.8439338 | 7.8439444  | 36     | 9.99999894  | 12.1560556 |
| 25     | 7.8616623 | 7.8616738  | 35     | 9.99999885  | 12.1383262 |
| 26     | 7.8786953 | 7.8787077  | 34     | 9.99999876  | 12.1212923 |
| 27     | 7.8950854 | 7.8950988  | 33     | 9.99999866  | 12.1049012 |
| 28     | 7.9108793 | 7.9108938  | 32     | 9.99999856  | 12.0891062 |
| 29     | 7.9261190 | 7.9261344  | 31     | 9.99999845  | 12.0738656 |
| 30     | 7.9408419 | 7.9408584  | 30     | 9.99999835  | 12.0591416 |



| Minut. | 0. Grad.  |            | Minut. | 89. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 7.9408419 | 7.9408584  | 30     | 9.9999835 | 12.0591416 |
| 31     | 7.9550819 | 7.9550996  | 29     | 9.9999823 | 12.0449004 |
| 32     | 7.9688698 | 7.9688886  | 28     | 9.9999812 | 12.0311114 |
| 33     | 7.9822334 | 7.9822534  | 27     | 9.9999800 | 12.0177466 |
| 34     | 7.9951980 | 7.9952192  | 26     | 9.9999788 | 12.0047808 |
| 35     | 8.0077867 | 8.0078092  | 25     | 9.9999775 | 11.9921908 |
| 36     | 8.0200207 | 8.0200445  | 24     | 9.9999762 | 11.9799555 |
| 37     | 8.0319195 | 8.0319446  | 23     | 9.9999748 | 11.9680554 |
| 38     | 8.0435009 | 8.0435274  | 22     | 9.9999735 | 11.9564726 |
| 39     | 8.0547814 | 8.0548094  | 21     | 9.9999721 | 11.9451906 |
| 40     | 8.0657763 | 8.0658057  | 20     | 9.9999706 | 11.9341943 |
| 41     | 8.0764997 | 8.0765306  | 19     | 9.9999691 | 11.9234694 |
| 42     | 8.0869646 | 8.0869970  | 18     | 9.9999676 | 11.9130030 |
| 43     | 8.0971832 | 8.0972172  | 17     | 9.9999660 | 11.9027828 |
| 44     | 8.1071669 | 8.1072025  | 16     | 9.9999644 | 11.8927975 |
| 45     | 8.1169262 | 8.1169634  | 15     | 9.9999628 | 11.8830366 |
| 46     | 8.1264710 | 8.1265099  | 14     | 9.9999611 | 11.8734901 |
| 47     | 8.1358104 | 8.1358510  | 13     | 9.9999594 | 11.8641490 |
| 48     | 8.1449532 | 8.1449956  | 12     | 9.9999577 | 11.8550044 |
| 49     | 8.1539075 | 8.1539516  | 11     | 9.9999559 | 11.8460484 |
| 50     | 8.1626808 | 8.1627267  | 10     | 9.9999541 | 11.8372733 |
| 51     | 8.1712804 | 8.1713282  | 9      | 9.9999522 | 11.8286718 |
| 52     | 8.1797129 | 8.1797626  | 8      | 9.9999503 | 11.8202374 |
| 53     | 8.1879848 | 8.1880364  | 7      | 9.9999484 | 11.8119636 |
| 54     | 8.1961020 | 8.1961556  | 6      | 9.9999464 | 11.8038444 |
| 55     | 8.2040703 | 8.2041259  | 5      | 9.9999444 | 11.7958741 |
| 56     | 8.2118949 | 8.2119526  | 4      | 9.9999424 | 11.7880474 |
| 57     | 8.2195811 | 8.2196408  | 3      | 9.9999403 | 11.7803592 |
| 58     | 8.2271335 | 8.2271953  | 2      | 9.9999382 | 11.7728047 |
| 59     | 8.2345568 | 8.2346208  | 1      | 9.9999360 | 11.7653792 |
| 60     | 8.2418553 | 8.2419215  | 0      | 9.9999338 | 11.7580785 |



| Minut. | 1. Grad.  |            | Minut. | 88. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 8.2418553 | 8.2419215  | 60     | 9.9999338 | 11.7580785 |
| 1      | 8.2490332 | 8.2491015  | 59     | 9.9999316 | 11.7508985 |
| 2      | 8.2560943 | 8.2561649  | 58     | 9.9999294 | 11.7438351 |
| 3      | 8.2630424 | 8.2631153  | 57     | 9.9999271 | 11.7368847 |
| 4      | 8.2698810 | 8.2699563  | 56     | 9.9999247 | 11.7300437 |
| 5      | 8.2766136 | 8.2766912  | 55     | 9.9999224 | 11.7233088 |
| 6      | 8.2832434 | 8.2833234  | 54     | 9.9999200 | 11.7166766 |
| 7      | 8.2897734 | 8.2898559  | 53     | 9.9999175 | 11.7101441 |
| 8      | 8.2962067 | 8.2962917  | 52     | 9.9999150 | 11.7037083 |
| 9      | 8.3025460 | 8.3026335  | 51     | 9.9999125 | 11.6973665 |
| 10     | 8.3087941 | 8.3088842  | 50     | 9.9999100 | 11.6911158 |
| 11     | 8.3149536 | 8.3150462  | 49     | 9.9999074 | 11.6849538 |
| 12     | 8.3210269 | 8.3211221  | 48     | 9.9999047 | 11.6788779 |
| 13     | 8.3270163 | 8.3271143  | 47     | 9.9999021 | 11.6728857 |
| 14     | 8.3329243 | 8.3330249  | 46     | 9.9998994 | 11.6669751 |
| 15     | 8.3387529 | 8.3388563  | 45     | 9.9998966 | 11.6611437 |
| 16     | 8.3445043 | 8.3446105  | 44     | 9.9998939 | 11.6553895 |
| 17     | 8.3501805 | 8.3502895  | 43     | 9.9998911 | 11.6497105 |
| 18     | 8.3557835 | 8.3558953  | 42     | 9.9998882 | 11.6441047 |
| 19     | 8.3613150 | 8.3614297  | 41     | 9.9998853 | 11.6385703 |
| 20     | 8.3667769 | 8.3668945  | 40     | 9.9998824 | 11.6331055 |
| 21     | 8.3721710 | 8.3722915  | 39     | 9.9998794 | 11.6277085 |
| 22     | 8.3774988 | 8.3776223  | 38     | 9.9998764 | 11.6223777 |
| 23     | 8.3827620 | 8.3828886  | 37     | 9.9998734 | 11.6171114 |
| 24     | 8.3879622 | 8.3880918  | 36     | 9.9998703 | 11.6119082 |
| 25     | 8.3931008 | 8.3932336  | 35     | 9.9998672 | 11.6067664 |
| 26     | 8.3981793 | 8.3983152  | 34     | 9.9998641 | 11.6016848 |
| 27     | 8.4031990 | 8.4033381  | 33     | 9.9998609 | 11.5966619 |
| 28     | 8.4081614 | 8.4083037  | 32     | 9.9998577 | 11.5916963 |
| 29     | 8.4130676 | 8.4132132  | 31     | 9.9998544 | 11.5867868 |
| 30     | 8.4179190 | 8.4180679  | 30     | 9.9998512 | 11.5819321 |

N. 3.



| Minut. | I. Grad.  |            | Minut. | 88. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 8.4179190 | 8.4180679  | 30     | 9.9998512 | 11.5819321 |
| 31     | 8.4227168 | 8.4228690  | 29     | 9.9998478 | 11.5771310 |
| 32     | 8.4274621 | 8.4276176  | 28     | 9.9998445 | 11.5723824 |
| 33     | 8.4321561 | 8.4323150  | 27     | 9.9998411 | 11.5676850 |
| 34     | 8.4367999 | 8.4369622  | 26     | 9.9998376 | 11.5630378 |
| 35     | 8.4413944 | 8.4415603  | 25     | 9.9998342 | 11.5584397 |
| 36     | 8.4459409 | 8.4461103  | 24     | 9.9998306 | 11.5538897 |
| 37     | 8.4504402 | 8.4506131  | 23     | 9.9998271 | 11.5493869 |
| 38     | 8.4548934 | 8.4550699  | 22     | 9.9998235 | 11.5449301 |
| 39     | 8.4593013 | 8.4594814  | 21     | 9.9998199 | 11.5405186 |
| 40     | 8.4636649 | 8.4638486  | 20     | 9.9998162 | 11.5361514 |
| 41     | 8.4679850 | 8.4681725  | 19     | 9.9998125 | 11.5318275 |
| 42     | 8.4722626 | 8.4724538  | 18     | 9.9998088 | 11.5275462 |
| 43     | 8.4764984 | 8.4766933  | 17     | 9.9998050 | 11.5233067 |
| 44     | 8.4806932 | 8.4808920  | 16     | 9.9998012 | 11.5191080 |
| 45     | 8.4848479 | 8.4850505  | 15     | 9.9997974 | 11.5149495 |
| 46     | 8.4889632 | 8.4891696  | 14     | 9.9997935 | 11.5108304 |
| 47     | 8.4930398 | 8.4932502  | 13     | 9.9997896 | 11.5067498 |
| 48     | 8.4970784 | 8.4972928  | 12     | 9.9997856 | 11.5027072 |
| 49     | 8.5010798 | 8.5012982  | 11     | 9.9997817 | 11.4987018 |
| 50     | 8.5050447 | 8.5052671  | 10     | 9.9997776 | 11.4947329 |
| 51     | 8.5089736 | 8.5092001  | 9      | 9.9997736 | 11.4907999 |
| 52     | 8.5128673 | 8.5130978  | 8      | 9.9997695 | 11.4869022 |
| 53     | 8.5167264 | 8.5169610  | 7      | 9.9997653 | 11.4830390 |
| 54     | 8.5205514 | 8.5207902  | 6      | 9.9997612 | 11.4792098 |
| 55     | 8.5243430 | 8.5245860  | 5      | 9.9997570 | 11.4754140 |
| 56     | 8.5281017 | 8.5283490  | 4      | 9.9997527 | 11.4716510 |
| 57     | 8.5318281 | 8.5320797  | 3      | 9.9997484 | 11.4679203 |
| 58     | 8.5355228 | 8.5357787  | 2      | 9.9997441 | 11.4642213 |
| 59     | 8.5391863 | 8.5394466  | 1      | 9.9997398 | 11.4605534 |
| 60     | 8.5428192 | 8.5430838  | 0      | 9.9997354 | 11.4569162 |

N. 4.

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| 2. Grad. |           |            | 87. Grad. |           |            |
|----------|-----------|------------|-----------|-----------|------------|
| Minut.   | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0        | 8.5428192 | 8.5430838  | 60        | 9.9997354 | II.4569162 |
| 1        | 8.5464218 | 8.5466909  | 59        | 9.9997309 | II.4533091 |
| 2        | 8.5499948 | 8.5502683  | 58        | 9.9997265 | II.4497317 |
| 3        | 8.5535386 | 8.5538166  | 57        | 9.9997220 | II.4461834 |
| 4        | 8.5570536 | 8.5573362  | 56        | 9.9997174 | II.4426638 |
| 5        | 8.5605404 | 8.5608276  | 55        | 9.9997128 | II.4391724 |
| 6        | 8.5639994 | 8.5642912  | 54        | 9.9997082 | II.4357088 |
| 7        | 8.5674310 | 8.5677275  | 53        | 9.9997036 | II.4322725 |
| 8        | 8.5708357 | 8.5711368  | 52        | 9.9996989 | II.4288632 |
| 9        | 8.5742139 | 8.5745197  | 51        | 9.9996942 | II.4254803 |
| 10       | 8.5775660 | 8.5778766  | 50        | 9.9996894 | II.4221234 |
| 11       | 8.5808923 | 8.5812077  | 49        | 9.9996846 | II.4187923 |
| 12       | 8.5841933 | 8.5845136  | 48        | 9.9996798 | II.4154864 |
| 13       | 8.5874694 | 8.5877945  | 47        | 9.9996749 | II.4122055 |
| 14       | 8.5907209 | 8.5910509  | 46        | 9.9996700 | II.4089491 |
| 15       | 8.5939483 | 8.5942832  | 45        | 9.9996650 | II.4057168 |
| 16       | 8.5971517 | 8.5974917  | 44        | 9.9996601 | II.4025083 |
| 17       | 8.6003317 | 8.6006767  | 43        | 9.9996550 | II.3993233 |
| 18       | 8.6034886 | 8.6038386  | 42        | 9.9996500 | II.3961614 |
| 19       | 8.6066226 | 8.6069777  | 41        | 9.9996449 | II.3930223 |
| 20       | 8.6097341 | 8.6100943  | 40        | 9.9996398 | II.3899057 |
| 21       | 8.6128235 | 8.6131889  | 39        | 9.9996346 | II.3868111 |
| 22       | 8.6158910 | 8.6162616  | 38        | 9.9996294 | II.3837384 |
| 23       | 8.6189369 | 8.6193127  | 37        | 9.9996242 | II.3806873 |
| 24       | 8.6219616 | 8.6223427  | 36        | 9.9996189 | II.3776573 |
| 25       | 8.6249653 | 8.6253518  | 35        | 9.9996136 | II.3746482 |
| 26       | 8.6279484 | 8.6283402  | 34        | 9.9996082 | II.3716598 |
| 27       | 8.6309111 | 8.6313083  | 33        | 9.9996028 | II.3686917 |
| 28       | 8.6338537 | 8.6342563  | 32        | 9.9995974 | II.3657437 |
| 29       | 8.6367764 | 8.6371845  | 31        | 9.9995919 | II.3628155 |
| 30       | 8.6396796 | 8.6400931  | 30        | 9.9995865 | II.3599059 |



| Minut. | 2. Grad.  |            | Minut. | 87. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 8.6396796 | 8.6400931  | 30     | 9.9995865 | 11.3599069 |
| 31     | 8.6425634 | 8.6429825  | 29     | 9.9995809 | 11.3570175 |
| 32     | 8.6454282 | 8.6458528  | 28     | 9.9995753 | 11.3541472 |
| 33     | 8.6482742 | 8.6487044  | 27     | 9.9995697 | 11.3512956 |
| 34     | 8.6511016 | 8.6515375  | 26     | 9.9995641 | 11.3484625 |
| 35     | 8.6539107 | 8.6543522  | 25     | 9.9995584 | 11.3456478 |
| 36     | 8.6567017 | 8.6571490  | 24     | 9.9995527 | 11.3428510 |
| 37     | 8.6594748 | 8.6599279  | 23     | 9.9995469 | 11.3400721 |
| 38     | 8.6622303 | 8.6626891  | 22     | 9.9995411 | 11.3373109 |
| 39     | 8.6649684 | 8.6654331  | 21     | 9.9995353 | 11.3345669 |
| 40     | 8.6676893 | 8.6681598  | 20     | 9.9995295 | 11.3318402 |
| 41     | 8.6703932 | 8.6708697  | 19     | 9.9995236 | 11.3291303 |
| 42     | 8.6730804 | 8.6735628  | 18     | 9.9995176 | 11.3264372 |
| 43     | 8.6757510 | 8.6762393  | 17     | 9.9995116 | 11.3237607 |
| 44     | 8.6784052 | 8.6788996  | 16     | 9.9995056 | 11.3211004 |
| 45     | 8.6810433 | 8.6815437  | 15     | 9.9994996 | 11.3184563 |
| 46     | 8.6836654 | 8.6841719  | 14     | 9.9994935 | 11.3158281 |
| 47     | 8.6862718 | 8.6867844  | 13     | 9.9994874 | 11.3132156 |
| 48     | 8.6888625 | 8.6893813  | 12     | 9.9994812 | 11.3106187 |
| 49     | 8.6914379 | 8.6919629  | 11     | 9.9994750 | 11.3080371 |
| 50     | 8.6939980 | 8.6945292  | 10     | 9.9994688 | 11.3054708 |
| 51     | 8.6965431 | 8.6970806  | 9      | 9.9994625 | 11.3029194 |
| 52     | 8.6990734 | 8.6996172  | 8      | 9.9994562 | 11.3003828 |
| 53     | 8.7015889 | 8.7021390  | 7      | 9.9994498 | 11.2978610 |
| 54     | 8.7040899 | 8.7046465  | 6      | 9.9994435 | 11.2953535 |
| 55     | 8.7065766 | 8.7071395  | 5      | 9.9994370 | 11.2928605 |
| 56     | 8.7090490 | 8.7096185  | 4      | 9.9994306 | 11.2903815 |
| 57     | 8.7115075 | 8.7120834  | 3      | 9.9994241 | 11.2879166 |
| 58     | 8.7139520 | 8.7145345  | 2      | 9.9994176 | 11.2854655 |
| 59     | 8.7163829 | 8.7169719  | 1      | 9.9994110 | 11.2830281 |
| 60     | 8.7188002 | 8.7199358  | 0      | 9.9994044 | 11.2806042 |

N. 6.



| 30. Grad. |           |            | 86. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 8.7188002 | 8.7193958  | 60        | 9.9994044 | 11.2806042 |
| 1         | 8.7212040 | 8.7218063  | 59        | 9.9993978 | 11.2781937 |
| 2         | 8.7235946 | 8.7242035  | 58        | 9.9993911 | 11.2757965 |
| 3         | 8.7259721 | 8.7265877  | 57        | 9.9993844 | 11.2734123 |
| 4         | 8.7283366 | 8.7289589  | 56        | 9.9993776 | 11.2710411 |
| 5         | 8.7306882 | 8.7313174  | 55        | 9.9993708 | 11.2686826 |
| 6         | 8.7330272 | 8.7336631  | 54        | 9.9993640 | 11.2663369 |
| 7         | 8.7353535 | 8.7359964  | 53        | 9.9993572 | 11.2640036 |
| 8         | 8.7376675 | 8.7383172  | 52        | 9.9993503 | 11.2616828 |
| 9         | 8.7399691 | 8.7406258  | 51        | 9.9993433 | 11.2593742 |
| 10        | 8.7422586 | 8.7429222  | 50        | 9.9993364 | 11.2570778 |
| 11        | 8.7445350 | 8.7452067  | 49        | 9.9993293 | 11.2547933 |
| 12        | 8.7468015 | 8.7474792  | 48        | 9.9993223 | 11.2525208 |
| 13        | 8.7490553 | 8.7497400  | 47        | 9.9993152 | 11.2502600 |
| 14        | 8.7512973 | 8.7519892  | 46        | 9.9993081 | 11.2480108 |
| 15        | 8.7535278 | 8.7542269  | 45        | 9.9993009 | 11.2457731 |
| 16        | 8.7557469 | 8.7564531  | 44        | 9.9992938 | 11.2435469 |
| 17        | 8.7579546 | 8.7586681  | 43        | 9.9992865 | 11.2413319 |
| 18        | 8.7601512 | 8.7608719  | 42        | 9.9992793 | 11.2391281 |
| 19        | 8.7623366 | 8.7630647  | 41        | 9.9992720 | 11.2369353 |
| 20        | 8.7645111 | 8.7652465  | 40        | 9.9992646 | 11.2347535 |
| 21        | 8.7666747 | 8.7674175  | 39        | 9.9992572 | 11.2325825 |
| 22        | 8.7688275 | 8.7695777  | 38        | 9.9992498 | 11.2304223 |
| 23        | 8.7709697 | 8.7717274  | 37        | 9.9992424 | 11.2282726 |
| 24        | 8.7731014 | 8.7738665  | 36        | 9.9992349 | 11.2261335 |
| 25        | 8.7752226 | 8.7759952  | 35        | 9.9992274 | 11.2240048 |
| 26        | 8.7773334 | 8.7781136  | 34        | 9.9992198 | 11.2218864 |
| 27        | 8.7794340 | 8.7802218  | 33        | 9.9992122 | 11.2197782 |
| 28        | 8.7815244 | 8.7823199  | 32        | 9.9992046 | 11.2176801 |
| 29        | 8.7836048 | 8.7844079  | 31        | 9.9991969 | 11.2155921 |
| 30        | 8.7856753 | 8.7864861  | 30        | 9.9991892 | 11.2135139 |



| Minut. | 3. Grad.  |            | Minut. | 86. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 8.7856753 | 8.7864861  | 30     | 9.9991892 | 11.2135139 |
| 31     | 8.7877359 | 8.7885544  | 29     | 9.9991815 | 11.2114456 |
| 32     | 8.7897867 | 8.7906130  | 28     | 9.9991737 | 11.2093870 |
| 33     | 8.7918278 | 8.7926620  | 27     | 9.9991659 | 11.2073380 |
| 34     | 8.7938594 | 8.7947014  | 26     | 9.9991580 | 11.2052986 |
| 35     | 8.7958814 | 8.7967313  | 25     | 9.9991501 | 11.2032687 |
| 36     | 8.7978941 | 8.7987519  | 24     | 9.9991422 | 11.2012481 |
| 37     | 8.7998974 | 8.8007632  | 23     | 9.9991342 | 11.1992368 |
| 38     | 8.8018915 | 8.8027653  | 22     | 9.9991262 | 11.1972347 |
| 39     | 8.8038764 | 8.8047583  | 21     | 9.9991182 | 11.1952417 |
| 40     | 8.8058523 | 8.8067422  | 20     | 9.9991101 | 11.1932578 |
| 41     | 8.8078192 | 8.8087172  | 19     | 9.9991020 | 11.1912828 |
| 42     | 8.8097772 | 8.8106834  | 18     | 9.9990938 | 11.1893166 |
| 43     | 8.8117264 | 8.8126407  | 17     | 9.9990856 | 11.1873593 |
| 44     | 8.8136668 | 8.8145894  | 16     | 9.9990774 | 11.1854106 |
| 45     | 8.8155985 | 8.8165294  | 15     | 9.9990691 | 11.1834706 |
| 46     | 8.8175217 | 8.8184608  | 14     | 9.9990608 | 11.1815392 |
| 47     | 8.8194363 | 8.8203838  | 13     | 9.9990525 | 11.1796162 |
| 48     | 8.8213425 | 8.8222984  | 12     | 9.9990441 | 11.1777016 |
| 49     | 8.8232404 | 8.8242046  | 11     | 9.9990357 | 11.1757954 |
| 50     | 8.8251299 | 8.8261026  | 10     | 9.9990273 | 11.1738974 |
| 51     | 8.8270112 | 8.8279924  | 9      | 9.9990188 | 11.1720076 |
| 52     | 8.8288844 | 8.8298741  | 8      | 9.9990103 | 11.1701259 |
| 53     | 8.8307495 | 8.8317478  | 7      | 9.9990017 | 11.1682522 |
| 54     | 8.8326066 | 8.8336134  | 6      | 9.9989931 | 11.1663866 |
| 55     | 8.8344557 | 8.8354712  | 5      | 9.9989845 | 11.1645288 |
| 56     | 8.8362969 | 8.8373211  | 4      | 9.9989758 | 11.1626789 |
| 57     | 8.8381304 | 8.8391633  | 3      | 9.9989671 | 11.1608367 |
| 58     | 8.8399561 | 8.8409977  | 2      | 9.9989584 | 11.1590023 |
| 59     | 8.8417741 | 8.8428245  | 1      | 9.9989496 | 11.1571755 |
| 60     | 8.8435845 | 8.8446437  | 0      | 9.9989408 | 11.1553563 |



| Minut. | 4. Grad.  |            | Minut. | 85. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 8.8435845 | 8.8446437  | 60     | 9.9989408 | II.1553563 |
| 1      | 8.8453874 | 8.8464554  | 59     | 9.9989319 | II.1535446 |
| 2      | 8.8471825 | 8.8482597  | 58     | 9.9989230 | II.1517403 |
| 3      | 8.8489707 | 8.8500566  | 57     | 9.9989141 | II.1499434 |
| 4      | 8.8507512 | 8.8518461  | 56     | 9.9989052 | II.1481539 |
| 5      | 8.8525245 | 8.8536283  | 55     | 9.9988962 | II.1463717 |
| 6      | 8.8542905 | 8.8554034  | 54     | 9.9988871 | II.1445966 |
| 7      | 8.8560493 | 8.8571713  | 53     | 9.9988780 | II.1428287 |
| 8      | 8.8578010 | 8.8589321  | 52     | 9.9988689 | II.1410679 |
| 9      | 8.8595457 | 8.8606859  | 51     | 9.9988598 | II.1393141 |
| 10     | 8.8612833 | 8.8624327  | 50     | 9.9988506 | II.1375673 |
| 11     | 8.8630139 | 8.8641725  | 49     | 9.9988414 | II.1358275 |
| 12     | 8.8647376 | 8.8659055  | 48     | 9.9988321 | II.1340945 |
| 13     | 8.8664545 | 8.8676317  | 47     | 9.9988228 | II.1323683 |
| 14     | 8.8681646 | 8.8693511  | 46     | 9.9988135 | II.1306489 |
| 15     | 8.8698680 | 8.8710638  | 45     | 9.9988041 | II.1289362 |
| 16     | 8.8715646 | 8.8727699  | 44     | 9.9987947 | II.1272301 |
| 17     | 8.8732546 | 8.8744694  | 43     | 9.9987853 | II.1255306 |
| 18     | 8.8749381 | 8.8761623  | 42     | 9.9987758 | II.1238377 |
| 19     | 8.8766150 | 8.8778487  | 41     | 9.9987663 | II.1221513 |
| 20     | 8.8782854 | 8.8795286  | 40     | 9.9987567 | II.1204714 |
| 21     | 8.8799493 | 8.8812022  | 39     | 9.9987471 | II.1187978 |
| 22     | 8.8816069 | 8.8828694  | 38     | 9.9987375 | II.1171306 |
| 23     | 8.8832581 | 8.8845303  | 37     | 9.9987278 | II.1154697 |
| 24     | 8.8849031 | 8.8861850  | 36     | 9.9987181 | II.1138150 |
| 25     | 8.8865418 | 8.8878334  | 35     | 9.9987084 | II.1121666 |
| 26     | 8.8881743 | 8.8894757  | 34     | 9.9986986 | II.1105243 |
| 27     | 8.8898007 | 8.8911119  | 33     | 9.9986888 | II.1088881 |
| 28     | 8.8914209 | 8.8927420  | 32     | 9.9986790 | II.1072580 |
| 29     | 8.8930351 | 8.8943660  | 31     | 9.9986691 | II.1056340 |
| 30     | 8.8946433 | 8.8959842  | 30     | 9.9986591 | II.1040158 |

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| Minut. | 4. Grad.  |            | Minut. | 85. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 8.8946433 | 8.8959842  | 30     | 9.9986591 | 11.1040158 |
| 31     | 8.8962455 | 8.8975963  | 29     | 9.9986492 | 11.1024037 |
| 32     | 8.8978418 | 8.8992026  | 28     | 9.9986392 | 11.1007974 |
| 33     | 8.8994322 | 8.9008030  | 27     | 9.9986292 | 11.0991970 |
| 34     | 8.9010168 | 8.9023977  | 26     | 9.9986191 | 11.0976023 |
| 35     | 8.9025955 | 8.9039866  | 25     | 9.9986090 | 11.0960134 |
| 36     | 8.9041685 | 8.9055697  | 24     | 9.9985988 | 11.0944303 |
| 37     | 8.9057358 | 8.9071477  | 23     | 9.9985886 | 11.0928528 |
| 38     | 8.9072975 | 8.9087190  | 22     | 9.9985784 | 11.0912810 |
| 39     | 8.9088535 | 8.9102853  | 21     | 9.9985682 | 11.0897147 |
| 40     | 8.9104039 | 8.9118460  | 20     | 9.9985579 | 11.0881540 |
| 41     | 8.9119487 | 8.9134012  | 19     | 9.9985475 | 11.0865988 |
| 42     | 8.9134881 | 8.9149509  | 18     | 9.9985372 | 11.0850491 |
| 43     | 8.9150219 | 8.9164952  | 17     | 9.9985268 | 11.0835048 |
| 44     | 8.9165504 | 8.9180340  | 16     | 9.9985163 | 11.0819660 |
| 45     | 8.9180734 | 8.9195675  | 15     | 9.9985058 | 11.0804325 |
| 46     | 8.9195911 | 8.9210957  | 14     | 9.9984953 | 11.0789043 |
| 47     | 8.9211034 | 8.9226186  | 13     | 9.9984848 | 11.0773814 |
| 48     | 8.9226105 | 8.9241363  | 12     | 9.9984742 | 11.0758637 |
| 49     | 8.9241123 | 8.9256487  | 11     | 9.9984636 | 11.0743513 |
| 50     | 8.9256089 | 8.9271560  | 10     | 9.9984529 | 11.0728440 |
| 51     | 8.9271003 | 8.9286581  | 9      | 9.9984422 | 11.0713419 |
| 52     | 8.9285866 | 8.9301552  | 8      | 9.9984315 | 11.0698448 |
| 53     | 8.9300678 | 8.9316471  | 7      | 9.9984207 | 11.0683529 |
| 54     | 8.9315439 | 8.9331340  | 6      | 9.9984099 | 11.0668660 |
| 55     | 8.9330150 | 8.9346160  | 5      | 9.9983990 | 11.0653840 |
| 56     | 8.9344811 | 8.9360929  | 4      | 9.9983881 | 11.0639071 |
| 57     | 8.9359422 | 8.9375650  | 3      | 9.9983772 | 11.0624350 |
| 58     | 8.9373983 | 8.9390321  | 2      | 9.9983663 | 11.0609679 |
| 59     | 8.9388496 | 8.9404944  | 1      | 9.9983553 | 11.0595056 |
| 60     | 8.9402960 | 8.9419518  | 0      | 9.9983442 | 11.0580482 |



| Minut. | 5. Grad.  |            | Minut. | 84. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 8.9402960 | 8.9419518  | 60     | 9.9983442 | 11.0580482 |
| 1      | 8.9417376 | 8.9434044  | 59     | 9.9983332 | 11.0565956 |
| 2      | 8.9431743 | 8.9448523  | 58     | 9.9983220 | 11.0551477 |
| 3      | 8.9446063 | 8.9462954  | 57     | 9.9983109 | 11.0537046 |
| 4      | 8.9460335 | 8.9477338  | 56     | 9.9982997 | 11.0522662 |
| 5      | 8.9474561 | 8.9491676  | 55     | 9.9982885 | 11.0508324 |
| 6      | 8.9488739 | 8.9505967  | 54     | 9.9982772 | 11.0494033 |
| 7      | 8.9502871 | 8.9520211  | 53     | 9.9982660 | 11.0479789 |
| 8      | 8.9516957 | 8.9534410  | 52     | 9.9982546 | 11.0465590 |
| 9      | 8.9530996 | 8.9548564  | 51     | 9.9982433 | 11.0451436 |
| 10     | 8.9544991 | 8.9562672  | 50     | 9.9982318 | 11.0437328 |
| 11     | 8.9558940 | 8.9576735  | 49     | 9.9982204 | 11.0423265 |
| 12     | 8.9572843 | 8.9590754  | 48     | 9.9982089 | 11.0409246 |
| 13     | 8.9586703 | 8.9604728  | 47     | 9.9981974 | 11.0395272 |
| 14     | 8.9600517 | 8.9618659  | 46     | 9.9981859 | 11.0381341 |
| 15     | 8.9614288 | 8.9632545  | 45     | 9.9981743 | 11.0367455 |
| 16     | 8.9628014 | 8.9646388  | 44     | 9.9981626 | 11.0353612 |
| 17     | 8.9641697 | 8.9660188  | 43     | 9.9981510 | 11.0339812 |
| 18     | 8.9655337 | 8.9673944  | 42     | 9.9981393 | 11.0326056 |
| 19     | 8.9668934 | 8.9687658  | 41     | 9.9981275 | 11.0312342 |
| 20     | 8.9682487 | 8.9701330  | 40     | 9.9981158 | 11.0298670 |
| 21     | 8.9695999 | 8.9714959  | 39     | 9.9981040 | 11.0285041 |
| 22     | 8.9709468 | 8.9728547  | 38     | 9.9980921 | 11.0271453 |
| 23     | 8.9722895 | 8.9742092  | 37     | 9.9980802 | 11.0257908 |
| 24     | 8.9736280 | 8.9755597  | 36     | 9.9980683 | 11.0244403 |
| 25     | 8.9749624 | 8.9769060  | 35     | 9.9980563 | 11.0230940 |
| 26     | 8.9762926 | 8.9782483  | 34     | 9.9980443 | 11.0217517 |
| 27     | 8.9776188 | 8.9795865  | 33     | 9.9980323 | 11.0204135 |
| 28     | 8.9789408 | 8.9809206  | 32     | 9.9980202 | 11.0190794 |
| 29     | 8.9802589 | 8.9822507  | 31     | 9.9980081 | 11.0177493 |
| 30     | 8.9815729 | 8.9835769  | 30     | 9.9979960 | 11.0164231 |



| Minut. | 5. Grad.  |            | Minut. | 84. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 8.9815729 | 8.9835769  | 30     | 9.997996  | 11.0164231 |
| 31     | 8.9828829 | 8.9848991  | 29     | 9.9979838 | 11.0151009 |
| 32     | 8.9841889 | 8.9862173  | 28     | 9.997971  | 11.0137827 |
| 33     | 8.9854910 | 8.9875317  | 27     | 9.9979593 | 11.0124683 |
| 34     | 8.9867891 | 8.9888421  | 26     | 9.9979470 | 11.0111579 |
| 35     | 8.9880834 | 8.9901487  | 25     | 9.997934  | 11.0098513 |
| 36     | 8.9893737 | 8.9914514  | 24     | 9.997922  | 11.0085486 |
| 37     | 8.9906602 | 8.9927503  | 23     | 9.997909  | 11.0072497 |
| 38     | 8.9919429 | 8.9940454  | 22     | 9.9978975 | 11.0059546 |
| 39     | 8.9932217 | 8.9953367  | 21     | 9.9978850 | 11.0046633 |
| 40     | 8.9944968 | 8.9966243  | 20     | 9.9978725 | 11.0033757 |
| 41     | 8.9957681 | 8.9979081  | 19     | 9.997859  | 1.0020919  |
| 42     | 8.9970356 | 8.9991883  | 18     | 9.9978473 | 11.0008117 |
| 43     | 8.9982994 | 9.0004647  | 17     | 9.9978347 | 10.9995353 |
| 44     | 8.9995595 | 9.0017375  | 16     | 9.9978220 | 10.9982625 |
| 45     | 9.0008160 | 9.0030066  | 15     | 9.9978093 | 10.9969934 |
| 46     | 9.0020687 | 9.0042721  | 14     | 9.9977966 | 10.9957279 |
| 47     | 9.0033179 | 9.0055340  | 13     | 9.9977838 | 10.9944660 |
| 48     | 9.0045634 | 9.0067924  | 12     | 9.9977710 | 10.9932076 |
| 49     | 9.0058053 | 9.0080471  | 11     | 9.9977582 | 10.9919529 |
| 50     | 9.0070436 | 9.0092984  | 10     | 9.9977453 | 10.9907016 |
| 51     | 9.0082784 | 9.0105461  | 9      | 9.9977323 | 10.9894539 |
| 52     | 9.0095096 | 9.0117903  | 8      | 9.9977194 | 10.9882097 |
| 53     | 9.0107374 | 9.0130310  | 7      | 9.9977064 | 10.9869690 |
| 54     | 9.0119616 | 9.0142682  | 6      | 9.9976933 | 10.9857318 |
| 55     | 9.0131823 | 9.0155021  | 5      | 9.9976803 | 10.9844979 |
| 56     | 9.0143996 | 9.0167325  | 4      | 9.9976672 | 10.9832675 |
| 57     | 9.0156135 | 9.0179594  | 3      | 9.9976540 | 10.9820406 |
| 58     | 9.0168239 | 9.0191831  | 2      | 9.9976408 | 10.9808169 |
| 59     | 9.0180309 | 9.0204033  | 1      | 9.9976276 | 10.9795967 |
| 60     | 9.0192346 | 9.0216202  | 0      | 9.9976143 | 10.9783798 |



| Minut. | 6. Grad.  |            | Minut. | 83. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.0192346 | 9.0216202  | 60     | 9.9976143 | 10.9783798 |
| 1      | 9.0204348 | 9.0228338  | 59     | 9.9976011 | 10.9771662 |
| 2      | 9.0216318 | 9.0240441  | 58     | 9.9975877 | 10.9759559 |
| 3      | 9.0228254 | 9.0252510  | 57     | 9.9975743 | 10.9747490 |
| 4      | 9.0240157 | 9.0264548  | 56     | 9.9975609 | 10.9735452 |
| 5      | 9.0252027 | 9.0276552  | 55     | 9.9975475 | 10.9723448 |
| 6      | 9.0263865 | 9.0288524  | 54     | 9.9975340 | 10.9711476 |
| 7      | 9.0275669 | 9.0300464  | 53     | 9.9975205 | 10.9699536 |
| 8      | 9.0287442 | 9.0312373  | 52     | 9.9975069 | 10.9687627 |
| 9      | 9.0299182 | 9.0324249  | 51     | 9.9974933 | 10.9675751 |
| 10     | 9.0310890 | 9.0336093  | 50     | 9.9974797 | 10.9663907 |
| 11     | 9.0322567 | 9.0347906  | 49     | 9.9974660 | 10.9652094 |
| 12     | 9.0334212 | 9.0359688  | 48     | 9.9974523 | 10.9640312 |
| 13     | 9.0345825 | 9.0371439  | 47     | 9.9974386 | 10.9628561 |
| 14     | 9.0357407 | 9.0383159  | 46     | 9.9974248 | 10.9616841 |
| 15     | 9.0368958 | 9.0394848  | 45     | 9.9974110 | 10.9605152 |
| 16     | 9.0380477 | 9.0406506  | 44     | 9.9973971 | 10.9593494 |
| 17     | 9.0391966 | 9.0418134  | 43     | 9.9973833 | 10.9581866 |
| 18     | 9.0403424 | 9.0429731  | 42     | 9.9973693 | 10.9570269 |
| 19     | 9.0414852 | 9.0441299  | 41     | 9.9973554 | 10.9558701 |
| 20     | 9.0426249 | 9.0452836  | 40     | 9.9973414 | 10.9547164 |
| 21     | 9.0437617 | 9.0464343  | 39     | 9.9973273 | 10.9535657 |
| 22     | 9.0448954 | 9.0475821  | 38     | 9.9973132 | 10.9524179 |
| 23     | 9.0460261 | 9.0487270  | 37     | 9.9972991 | 10.9512730 |
| 24     | 9.0471538 | 9.0498689  | 36     | 9.9972850 | 10.9501311 |
| 25     | 9.0482786 | 9.0510078  | 35     | 9.9972708 | 10.9489922 |
| 26     | 9.0494005 | 9.0521439  | 34     | 9.9972566 | 10.9478561 |
| 27     | 9.0505194 | 9.0532771  | 33     | 9.9972423 | 10.9467229 |
| 28     | 9.0516354 | 9.0544074  | 32     | 9.9972280 | 10.9455926 |
| 29     | 9.0527485 | 9.0555349  | 31     | 9.9972137 | 10.9444651 |
| 30     | 9.0538588 | 9.0566595  | 30     | 9.9971993 | 10.9433405 |



| 6. Grad. |           |            | 83. Grad. |           |            |
|----------|-----------|------------|-----------|-----------|------------|
| Minut.   | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30       | 9.0538588 | 9.0566595  | 30        | 9.9971993 | 10.9433405 |
| 31       | 9.0542661 | 9.0577813  | 29        | 9.9971849 | 10.9422187 |
| 32       | 9.0560706 | 9.0589002  | 28        | 9.9971704 | 10.9410998 |
| 33       | 9.0571723 | 9.0600164  | 27        | 9.9971559 | 10.9399836 |
| 34       | 9.0582711 | 9.0611297  | 26        | 9.9971414 | 10.9388703 |
| 35       | 9.0593672 | 9.0622403  | 25        | 9.9971268 | 10.9377597 |
| 36       | 9.0604604 | 9.0633482  | 24        | 9.9971122 | 10.9366518 |
| 37       | 9.0615509 | 9.0644533  | 23        | 9.9970976 | 10.9355467 |
| 38       | 9.0626386 | 9.0655556  | 22        | 9.9970829 | 10.9344444 |
| 39       | 9.0637235 | 9.0666553  | 21        | 9.9970682 | 10.9333447 |
| 40       | 9.0648057 | 9.0677522  | 20        | 9.9970535 | 10.9322478 |
| 41       | 9.0658852 | 9.0688465  | 19        | 9.9970387 | 10.9311535 |
| 42       | 9.0669619 | 9.0699381  | 18        | 9.9970239 | 10.9300619 |
| 43       | 9.0680360 | 9.0710270  | 17        | 9.9970090 | 10.9289730 |
| 44       | 9.0691074 | 9.0721133  | 16        | 9.9969941 | 10.9278867 |
| 45       | 9.0701761 | 9.0731969  | 15        | 9.9969792 | 10.9268031 |
| 46       | 9.0712421 | 9.0742779  | 14        | 9.9969642 | 10.9257221 |
| 47       | 9.0723055 | 9.0753563  | 13        | 9.9969492 | 10.9246437 |
| 48       | 9.0733663 | 9.0764321  | 12        | 9.9969342 | 10.9235679 |
| 49       | 9.0744244 | 9.0775053  | 11        | 9.9969191 | 10.9224947 |
| 50       | 9.0754799 | 9.0785760  | 10        | 9.9969040 | 10.9214240 |
| 51       | 9.0765329 | 9.0796441  | 9         | 9.9968888 | 10.9203559 |
| 52       | 9.0775832 | 9.0807096  | 8         | 9.9968736 | 10.9192904 |
| 53       | 9.0786310 | 9.0817726  | 7         | 9.9968584 | 10.9182274 |
| 54       | 9.0796762 | 9.0828331  | 6         | 9.9968431 | 10.9171669 |
| 55       | 9.0807189 | 9.0838911  | 5         | 9.9968278 | 10.9161089 |
| 56       | 9.0817590 | 9.0849466  | 4         | 9.9968125 | 10.9150534 |
| 57       | 9.0827966 | 9.0859996  | 3         | 9.9967971 | 10.9140004 |
| 58       | 9.0838317 | 9.0870501  | 2         | 9.9967817 | 10.9129499 |
| 59       | 9.0848643 | 9.0880981  | 1         | 9.9967662 | 10.9119019 |
| 60       | 9.0858945 | 9.0891438  | 0         | 9.9967507 | 10.9108562 |



| 7. Grad. |           |            | 82. Grad. |           |            |
|----------|-----------|------------|-----------|-----------|------------|
| Minut.   | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0        | 9.0858945 | 9.0891438  | 60        | 9.9967507 | 10.9108562 |
| 1        | 9.0869221 | 9.0901869  | 59        | 9.9967352 | 10.9098131 |
| 2        | 9.0879473 | 9.0912277  | 58        | 9.9967196 | 10.9087723 |
| 3        | 9.0889700 | 9.0922660  | 57        | 9.9967040 | 10.9077340 |
| 4        | 9.0899903 | 9.0933020  | 56        | 9.9966884 | 10.9066980 |
| 5        | 9.0910082 | 9.0943355  | 55        | 9.9966727 | 10.9056645 |
| 6        | 9.0920237 | 9.0953667  | 54        | 9.9966570 | 10.9046333 |
| 7        | 9.0930367 | 9.0963955  | 53        | 9.9966412 | 10.9036045 |
| 8        | 9.0940474 | 9.0974219  | 52        | 9.9966254 | 10.9025781 |
| 9        | 9.0950556 | 9.0984460  | 51        | 9.9966096 | 10.9015540 |
| 10       | 9.0960615 | 9.0994678  | 50        | 9.9965937 | 10.9005322 |
| 11       | 9.0970651 | 9.1004872  | 49        | 9.9965778 | 10.8995128 |
| 12       | 9.0980662 | 9.1015044  | 48        | 9.9965619 | 10.8984956 |
| 13       | 9.0990651 | 9.1025192  | 47        | 9.9965459 | 10.8974808 |
| 14       | 9.1000616 | 9.1035317  | 46        | 9.9965299 | 10.8964683 |
| 15       | 9.1010558 | 9.1045420  | 45        | 9.9965138 | 10.8954580 |
| 16       | 9.1020477 | 9.1055500  | 44        | 9.9964977 | 10.8944500 |
| 17       | 9.1030373 | 9.1065557  | 43        | 9.9964816 | 10.8934443 |
| 18       | 9.1040246 | 9.1075591  | 42        | 9.9964655 | 10.8924409 |
| 19       | 9.1050096 | 9.1085604  | 41        | 9.9964493 | 10.8914396 |
| 20       | 9.1059924 | 9.1095594  | 40        | 9.9964330 | 10.8904406 |
| 21       | 9.1069729 | 9.1105562  | 39        | 9.9964167 | 10.8894438 |
| 22       | 9.1079512 | 9.1115508  | 38        | 9.9964004 | 10.8884492 |
| 23       | 9.1089272 | 9.1125431  | 37        | 9.9963841 | 10.8874569 |
| 24       | 9.1099010 | 9.1135333  | 36        | 9.9963677 | 10.8864667 |
| 25       | 9.1108726 | 9.1145213  | 35        | 9.9963513 | 10.8854787 |
| 26       | 9.1118420 | 9.1155072  | 34        | 9.9963348 | 10.8844928 |
| 27       | 9.1128092 | 9.1164909  | 33        | 9.9963183 | 10.8835091 |
| 28       | 9.1137742 | 9.1174724  | 32        | 9.9963018 | 10.8825276 |
| 29       | 9.1147370 | 9.1184518  | 31        | 9.9962852 | 10.8815482 |
| 30       | 9.1156977 | 9.1194291  | 30        | 9.9962686 | 10.8805709 |



| 7. Grad. |           |            | 82. Grad. |           |            |
|----------|-----------|------------|-----------|-----------|------------|
| Minut.   | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30       | 9.1156977 | 9.1194291  | 30        | 9.9962685 | 10.8805709 |
| 31       | 9.1166562 | 9.1204043  | 29        | 9.9962519 | 10.8795957 |
| 32       | 9.1176125 | 9.1213773  | 28        | 9.9962352 | 10.8786227 |
| 33       | 9.1185667 | 9.1223482  | 27        | 9.9962185 | 10.8776518 |
| 34       | 9.1195188 | 9.1233171  | 26        | 9.9962017 | 10.8766829 |
| 35       | 9.1204688 | 9.1242839  | 25        | 9.9961849 | 10.8757161 |
| 36       | 9.1214167 | 9.1252486  | 24        | 9.9961681 | 10.8747514 |
| 37       | 9.1223624 | 9.1262112  | 23        | 9.9961512 | 10.8737888 |
| 38       | 9.1233061 | 9.1271718  | 22        | 9.9961343 | 10.8728282 |
| 39       | 9.1242477 | 9.1281303  | 21        | 9.9961174 | 10.8718697 |
| 40       | 9.1251872 | 9.1290868  | 20        | 9.9961004 | 10.8709132 |
| 41       | 9.1261246 | 9.1300413  | 19        | 9.9960834 | 10.8699587 |
| 42       | 9.1270600 | 9.1309937  | 18        | 9.9960663 | 10.8690063 |
| 43       | 9.1279934 | 9.1319442  | 17        | 9.9960492 | 10.8680558 |
| 44       | 9.1289247 | 9.1328926  | 16        | 9.9960321 | 10.8671074 |
| 45       | 9.1298539 | 9.1338391  | 15        | 9.9960149 | 10.8661609 |
| 46       | 9.1307812 | 9.1347835  | 14        | 9.9959977 | 10.8652165 |
| 47       | 9.1317064 | 9.1357260  | 13        | 9.9959804 | 10.8642740 |
| 48       | 9.1326297 | 9.1366665  | 12        | 9.9959631 | 10.8633335 |
| 49       | 9.1335509 | 9.1376051  | 11        | 9.9959458 | 10.8623949 |
| 50       | 9.1344702 | 9.1385417  | 10        | 9.9959284 | 10.8614583 |
| 51       | 9.1353875 | 9.1394764  | 9         | 9.9959111 | 10.8605236 |
| 52       | 9.1363028 | 9.1404092  | 8         | 9.9958936 | 10.8595908 |
| 53       | 9.1372161 | 9.1413400  | 7         | 9.9958761 | 10.8586600 |
| 54       | 9.1381275 | 9.1422689  | 6         | 9.9958586 | 10.8577311 |
| 55       | 9.1390370 | 9.1431959  | 5         | 9.9958411 | 10.8568041 |
| 56       | 9.1399445 | 9.1441210  | 4         | 9.9958235 | 10.8558790 |
| 57       | 9.1408501 | 9.1450442  | 3         | 9.9958059 | 10.8549558 |
| 58       | 9.1417537 | 9.1459655  | 2         | 9.9957882 | 10.8540345 |
| 59       | 9.1426555 | 9.1468850  | 1         | 9.9957705 | 10.8531150 |
| 60       | 9.1435553 | 9.1478025  | 0         | 9.9957528 | 10.8521975 |



| Minut. | 8. Grad.  |            | Minut. | 81. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.1435553 | 9.1478025  | 60     | 9.9957528 | 10.8521975 |
| 1      | 9.1444532 | 9.1487182  | 59     | 9.9957350 | 10.8512818 |
| 2      | 9.1453493 | 9.1496321  | 58     | 9.9957172 | 10.8503679 |
| 3      | 9.1462435 | 9.1505441  | 57     | 9.9956993 | 10.8494559 |
| 4      | 9.1471358 | 9.1514543  | 56     | 9.9956815 | 10.8485457 |
| 5      | 9.1480262 | 9.1523627  | 55     | 9.9956635 | 10.8476373 |
| 6      | 9.1489148 | 9.1532692  | 54     | 9.9956456 | 10.8467308 |
| 7      | 9.1498015 | 9.1541739  | 53     | 9.9956276 | 10.8458261 |
| 8      | 9.1506864 | 9.1550769  | 52     | 9.9956095 | 10.8449231 |
| 9      | 9.1515694 | 9.1559780  | 51     | 9.9955915 | 10.8440220 |
| 10     | 9.1524507 | 9.1568773  | 50     | 9.9955734 | 10.8431227 |
| 11     | 9.1533301 | 9.1577748  | 49     | 9.9955552 | 10.8422252 |
| 12     | 9.1542076 | 9.1586706  | 48     | 9.9955370 | 10.8413294 |
| 13     | 9.1550834 | 9.1595646  | 47     | 9.9955188 | 10.8404354 |
| 14     | 9.1559574 | 9.1604569  | 46     | 9.9955005 | 10.8395431 |
| 15     | 9.1568296 | 9.1613473  | 45     | 9.9954822 | 10.8386527 |
| 16     | 9.1577000 | 9.1622361  | 44     | 9.9954639 | 10.8377639 |
| 17     | 9.1585686 | 9.1631231  | 43     | 9.9954455 | 10.8368769 |
| 18     | 9.1594354 | 9.1640083  | 42     | 9.9954271 | 10.8359917 |
| 19     | 9.1603005 | 9.1648919  | 41     | 9.9954087 | 10.8351081 |
| 20     | 9.1611639 | 9.1657737  | 40     | 9.9953902 | 10.8342263 |
| 21     | 9.1620254 | 9.1666538  | 39     | 9.9953717 | 10.8333462 |
| 22     | 9.1628853 | 9.1675322  | 38     | 9.9953531 | 10.8324678 |
| 23     | 9.1637434 | 9.1684089  | 37     | 9.9953345 | 10.8315911 |
| 24     | 9.1645998 | 9.1692839  | 36     | 9.9953159 | 10.8307161 |
| 25     | 9.1654544 | 9.1701572  | 35     | 9.9952972 | 10.8298428 |
| 26     | 9.1663074 | 9.1710289  | 34     | 9.9952785 | 10.8289711 |
| 27     | 9.1671586 | 9.1718989  | 33     | 9.9952597 | 10.8281011 |
| 28     | 9.1680081 | 9.1727672  | 32     | 9.9952409 | 10.8272328 |
| 29     | 9.1688559 | 9.1736338  | 31     | 9.9952221 | 10.8263662 |
| 30     | 9.1697021 | 9.1744988  | 30     | 9.9952033 | 10.8255012 |

Num. 17.

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826  
0  
97859  
26.82826  
0



| Minut. | 8. Grad.  |            | Minut. | 81. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.1697021 | 9.1744988  | 30     | 9.9952033 | 10.8255012 |
| 31     | 9.1705465 | 9.1753622  | 29     | 9.9951844 | 10.8246378 |
| 32     | 9.1713893 | 9.1762239  | 28     | 9.9951654 | 10.8237761 |
| 33     | 9.1722305 | 9.1770840  | 27     | 9.9951464 | 10.8229160 |
| 34     | 9.1730699 | 9.1779425  | 26     | 9.9951274 | 10.8220575 |
| 35     | 9.1739077 | 9.1787993  | 25     | 9.9951084 | 10.8212007 |
| 36     | 9.1747439 | 9.1796546  | 24     | 9.9950893 | 10.8203454 |
| 37     | 9.1755784 | 9.1805082  | 23     | 9.9950702 | 10.8194918 |
| 38     | 9.1764112 | 9.1813602  | 22     | 9.9950510 | 10.8186398 |
| 39     | 9.1772425 | 9.1822106  | 21     | 9.9950318 | 10.8177894 |
| 40     | 9.1780721 | 9.1830595  | 20     | 9.9950126 | 10.8169405 |
| 41     | 9.1789001 | 9.1839068  | 19     | 9.9949933 | 10.8160932 |
| 42     | 9.1797265 | 9.1847525  | 18     | 9.9949740 | 10.8152475 |
| 43     | 9.1805512 | 9.1855966  | 17     | 9.9949546 | 10.8144034 |
| 44     | 9.1813744 | 9.1864392  | 16     | 9.9949352 | 10.8135608 |
| 45     | 9.1821960 | 9.1872802  | 15     | 9.9949158 | 10.8127198 |
| 46     | 9.1830160 | 9.1881196  | 14     | 9.9948964 | 10.8118804 |
| 47     | 9.1838344 | 9.1889575  | 13     | 9.9948769 | 10.8110425 |
| 48     | 9.1846512 | 9.1897939  | 12     | 9.9948573 | 10.8102061 |
| 49     | 9.1854665 | 9.1906287  | 11     | 9.9948377 | 10.8093713 |
| 50     | 9.1862802 | 9.1914621  | 10     | 9.9948181 | 10.8085379 |
| 51     | 9.1870923 | 9.1922939  | 9      | 9.9947985 | 10.8077061 |
| 52     | 9.1879029 | 9.1931241  | 8      | 9.9947788 | 10.8068759 |
| 53     | 9.1887120 | 9.1939529  | 7      | 9.9947591 | 10.8060471 |
| 54     | 9.1895195 | 9.1947802  | 6      | 9.9947393 | 10.8052198 |
| 55     | 9.1903254 | 9.1956059  | 5      | 9.9947195 | 10.8043941 |
| 56     | 9.1911299 | 9.1964302  | 4      | 9.9946997 | 10.8035698 |
| 57     | 9.1919328 | 9.1972530  | 3      | 9.9946798 | 10.8027470 |
| 58     | 9.1927342 | 9.1980743  | 2      | 9.9946599 | 10.8019257 |
| 59     | 9.1935341 | 9.1988941  | 1      | 9.9946399 | 10.8011059 |
| 60     | 9.1943324 | 9.1997125  | 0      | 9.9946199 | 10.8002875 |



| 9. Grad. |           |            | 80. Grad. |           |            |
|----------|-----------|------------|-----------|-----------|------------|
| Minut.   | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0        | 9.1943324 | 9.1997125  | 60        | 9.9946199 | 10.8002875 |
| 1        | 9.1951293 | 9.2005294  | 59        | 9.9945999 | 10.7994706 |
| 2        | 9.1959247 | 9.2013449  | 58        | 9.9945798 | 10.7986551 |
| 3        | 9.1967186 | 9.2021588  | 57        | 9.9945597 | 10.7978411 |
| 4        | 9.1975110 | 9.2029714  | 56        | 9.9945396 | 10.7970286 |
| 5        | 9.1983019 | 9.2037825  | 55        | 9.9945194 | 10.7962175 |
| 6        | 9.1990913 | 9.2045922  | 54        | 9.9944992 | 10.7954078 |
| 7        | 9.1998793 | 9.2054004  | 53        | 9.9944789 | 10.7945996 |
| 8        | 9.2006658 | 9.2062072  | 52        | 9.9944587 | 10.7937928 |
| 9        | 9.2014509 | 9.2070126  | 51        | 9.9944383 | 10.7929874 |
| 10       | 9.2022345 | 9.2078165  | 50        | 9.9944180 | 10.7921835 |
| 11       | 9.2030167 | 9.2086191  | 49        | 9.9943975 | 10.7913809 |
| 12       | 9.2037974 | 9.2094203  | 48        | 9.9943771 | 10.7905797 |
| 13       | 9.2045766 | 9.2102200  | 47        | 9.9943566 | 10.7897800 |
| 14       | 9.2053545 | 9.2110184  | 46        | 9.9943361 | 10.7889816 |
| 15       | 9.2061309 | 9.2118153  | 45        | 9.9943156 | 10.7881847 |
| 16       | 9.2069059 | 9.2126109  | 44        | 9.9942950 | 10.7873891 |
| 17       | 9.2076795 | 9.2134051  | 43        | 9.9942743 | 10.7865949 |
| 18       | 9.2084516 | 9.2141980  | 42        | 9.9942537 | 10.7858020 |
| 19       | 9.2092224 | 9.2149894  | 41        | 9.9942330 | 10.7850106 |
| 20       | 9.2099917 | 9.2157795  | 40        | 9.9942122 | 10.7842205 |
| 21       | 9.2107597 | 9.2165683  | 39        | 9.9941914 | 10.7834317 |
| 22       | 9.2115263 | 9.2173556  | 38        | 9.9941706 | 10.7826444 |
| 23       | 9.2122914 | 9.2181417  | 37        | 9.9941498 | 10.7818583 |
| 24       | 9.2130552 | 9.2189264  | 36        | 9.9941289 | 10.7810736 |
| 25       | 9.2138176 | 9.2197097  | 35        | 9.9941079 | 10.7802903 |
| 26       | 9.2145787 | 9.2204917  | 34        | 9.9940870 | 10.7795083 |
| 27       | 9.2153384 | 9.2212724  | 33        | 9.9940659 | 10.7787276 |
| 28       | 9.2160967 | 9.2220518  | 32        | 9.9940449 | 10.7779482 |
| 29       | 9.2168536 | 9.2228298  | 31        | 9.9940238 | 10.7771702 |
| 30       | 9.2176092 | 9.2236065  | 30        | 9.9940027 | 10.7763935 |



| Minut. | 9. Grad.  |            | Minut. | 80. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.2176092 | 9.2236065  | 30     | 9.9940027 | 10.7763935 |
| 31     | 9.2183635 | 9.2243819  | 29     | 9.9939815 | 10.7756181 |
| 32     | 9.2191164 | 9.2251561  | 28     | 9.9939603 | 10.7748439 |
| 33     | 9.2198680 | 9.2259289  | 27     | 9.9939391 | 10.7740711 |
| 34     | 9.2206182 | 9.2267004  | 26     | 9.9939178 | 10.7732996 |
| 35     | 9.2213671 | 9.2274706  | 25     | 9.9938965 | 10.7725294 |
| 36     | 9.2221147 | 9.2282395  | 24     | 9.9938752 | 10.7717605 |
| 37     | 9.2228609 | 9.2290071  | 23     | 9.9938538 | 10.7709929 |
| 38     | 9.2236059 | 9.2297735  | 22     | 9.9938324 | 10.7702265 |
| 39     | 9.2243495 | 9.2305386  | 21     | 9.9938109 | 10.7694614 |
| 40     | 9.2250918 | 9.2313024  | 20     | 9.9937894 | 10.7686976 |
| 41     | 9.2258328 | 9.2320650  | 19     | 9.9937679 | 10.7679350 |
| 42     | 9.2265725 | 9.2328262  | 18     | 9.9937463 | 10.7671738 |
| 43     | 9.2273110 | 9.2335863  | 17     | 9.9937247 | 10.7664137 |
| 44     | 9.2280481 | 9.2343451  | 16     | 9.9937030 | 10.7656549 |
| 45     | 9.2287839 | 9.2351026  | 15     | 9.9936813 | 10.7648974 |
| 46     | 9.2295185 | 9.2358589  | 14     | 9.9936596 | 10.7641411 |
| 47     | 9.2302518 | 9.2366139  | 13     | 9.9936378 | 10.7633861 |
| 48     | 9.2309838 | 9.2373678  | 12     | 9.9936160 | 10.7626322 |
| 49     | 9.2317145 | 9.2381203  | 11     | 9.9935942 | 10.7618797 |
| 50     | 9.2324440 | 9.2388717  | 10     | 9.9935723 | 10.7611283 |
| 51     | 9.2331722 | 9.2396218  | 9      | 9.9935504 | 10.7603782 |
| 52     | 9.2338992 | 9.2403708  | 8      | 9.9935285 | 10.7596292 |
| 53     | 9.2346249 | 9.2411185  | 7      | 9.9935065 | 10.7588815 |
| 54     | 9.2353494 | 9.2418650  | 6      | 9.9934844 | 10.7581350 |
| 55     | 9.2360726 | 9.2426103  | 5      | 9.9934624 | 10.7573897 |
| 56     | 9.2367946 | 9.2433543  | 4      | 9.9934403 | 10.7566457 |
| 57     | 9.2375153 | 9.2440972  | 3      | 9.9934181 | 10.7559028 |
| 58     | 9.2382349 | 9.2448389  | 2      | 9.9933959 | 10.7551611 |
| 59     | 9.2389532 | 9.2455794  | 1      | 9.9933737 | 10.7544206 |
| 60     | 9.2396702 | 9.2463188  | 0      | 9.9933515 | 10.7536812 |



| Minut. | 10. Grad. |            | Minut. | 79. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.2396702 | 9.2463188  | 60     | 9.9933515 | 10.7536812 |
| 1      | 9.2403861 | 9.2470569  | 59     | 9.9933292 | 10.7529431 |
| 2      | 9.2411007 | 9.2477939  | 58     | 9.9933068 | 10.7522061 |
| 3      | 9.2418141 | 9.2485297  | 57     | 9.9932845 | 10.7514703 |
| 4      | 9.2425264 | 9.2492643  | 56     | 9.9932621 | 10.7507357 |
| 5      | 9.2432374 | 9.2499978  | 55     | 9.9932396 | 10.7500022 |
| 6      | 9.2439472 | 9.2507301  | 54     | 9.9932171 | 10.7492699 |
| 7      | 9.2446558 | 9.2514612  | 53     | 9.9931946 | 10.7485388 |
| 8      | 9.2453632 | 9.2521912  | 52     | 9.9931720 | 10.7478088 |
| 9      | 9.2460695 | 9.2529200  | 51     | 9.9931494 | 10.7470800 |
| 10     | 9.2467746 | 9.2536477  | 50     | 9.9931268 | 10.7463523 |
| 11     | 9.2474784 | 9.2543743  | 49     | 9.9931041 | 10.7456257 |
| 12     | 9.2481811 | 9.2550997  | 48     | 9.9930814 | 10.7449003 |
| 13     | 9.2488827 | 9.2558240  | 47     | 9.9930587 | 10.7441760 |
| 14     | 9.2495830 | 9.2565472  | 46     | 9.9930359 | 10.7434528 |
| 15     | 9.2502822 | 9.2572691  | 45     | 9.9930131 | 10.7427308 |
| 16     | 9.2509803 | 9.2579901  | 44     | 9.9929902 | 10.7420099 |
| 17     | 9.2516772 | 9.2587099  | 43     | 9.9929673 | 10.7412901 |
| 18     | 9.2523729 | 9.2594285  | 42     | 9.9929444 | 10.7405715 |
| 19     | 9.2530675 | 9.2601461  | 41     | 9.9929214 | 10.7398539 |
| 20     | 9.2537609 | 9.2608625  | 40     | 9.9928984 | 10.7391375 |
| 21     | 9.2544532 | 9.2615779  | 39     | 9.9928753 | 10.7384221 |
| 22     | 9.2551444 | 9.2622921  | 38     | 9.9928522 | 10.7377079 |
| 23     | 9.2558344 | 9.2630053  | 37     | 9.9928291 | 10.7369947 |
| 24     | 9.2565233 | 9.2637173  | 36     | 9.9928059 | 10.7362827 |
| 25     | 9.2572110 | 9.2644283  | 35     | 9.9927827 | 10.7355717 |
| 26     | 9.2578977 | 9.2651382  | 34     | 9.9927595 | 10.7348618 |
| 27     | 9.2585832 | 9.2658470  | 33     | 9.9927362 | 10.7341530 |
| 28     | 9.2592676 | 9.2665547  | 32     | 9.9927129 | 10.7334453 |
| 29     | 9.2599509 | 9.2672613  | 31     | 9.9926895 | 10.7327387 |
| 30     | 9.2606330 | 9.2679669  | 30     | 9.9926661 | 10.7320331 |



| Minut. | 10. Grad. |            | Minut. | 79. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.2606330 | 9.2679669  | 30     | 9.9926661 | 10.7320331 |
| 31     | 9.2613141 | 9.2686714  | 29     | 9.9926427 | 10.7313286 |
| 32     | 9.2619941 | 9.2693749  | 28     | 9.9926192 | 10.7306251 |
| 33     | 9.2626729 | 9.2700772  | 27     | 9.9925957 | 10.7299228 |
| 34     | 9.2633507 | 9.2707786  | 26     | 9.9925722 | 10.7292214 |
| 35     | 9.2640274 | 9.2714788  | 25     | 9.9925486 | 10.7285212 |
| 36     | 9.2647030 | 9.2721780  | 24     | 9.9925250 | 10.7278220 |
| 37     | 9.2653775 | 9.2728762  | 23     | 9.9925013 | 10.7271238 |
| 38     | 9.2660509 | 9.2735733  | 22     | 9.9924776 | 10.7264267 |
| 39     | 9.2667232 | 9.2742694  | 21     | 9.9924539 | 10.7257306 |
| 40     | 9.2673945 | 9.2749644  | 20     | 9.9924301 | 10.7250356 |
| 41     | 9.2680647 | 9.2756584  | 19     | 9.9924063 | 10.7243416 |
| 42     | 9.2687338 | 9.2763514  | 18     | 9.9923824 | 10.7236486 |
| 43     | 9.2694019 | 9.2770434  | 17     | 9.9923585 | 10.7229566 |
| 44     | 9.2700689 | 9.2777343  | 16     | 9.9923346 | 10.7222657 |
| 45     | 9.2707348 | 9.2784242  | 15     | 9.9923106 | 10.7215758 |
| 46     | 9.2713997 | 9.2791131  | 14     | 9.9922866 | 10.7208869 |
| 47     | 9.2720635 | 9.2798009  | 13     | 9.9922626 | 10.7201991 |
| 48     | 9.2727263 | 9.2804878  | 12     | 9.9922385 | 10.7195122 |
| 49     | 9.2733880 | 9.2811736  | 11     | 9.9922144 | 10.7188264 |
| 50     | 9.2740487 | 9.2818585  | 10     | 9.9921902 | 10.7181415 |
| 51     | 9.2747083 | 9.2825423  | 9      | 9.9921660 | 10.7174577 |
| 52     | 9.2753669 | 9.2832251  | 8      | 9.9921418 | 10.7167749 |
| 53     | 9.2760245 | 9.2839070  | 7      | 9.9921175 | 10.7160930 |
| 54     | 9.2766811 | 9.2845878  | 6      | 9.9920932 | 10.7154122 |
| 55     | 9.2773366 | 9.2852677  | 5      | 9.9920689 | 10.7147323 |
| 56     | 9.2779911 | 9.2859466  | 4      | 9.9920445 | 10.7140534 |
| 57     | 9.2786445 | 9.2866245  | 3      | 9.9920201 | 10.7133755 |
| 58     | 9.2792970 | 9.2873014  | 2      | 9.9919956 | 10.7126986 |
| 59     | 9.2799484 | 9.2879773  | 1      | 9.9919711 | 10.7120227 |
| 60     | 9.2805988 | 9.2886523  | 0      | 9.9919466 | 10.7113477 |



| Minut. | 11. Grad. |            | Minut. | 78. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.2805988 | 9.2886523  | 60     | 9.9919466 | 10.7113477 |
| 1      | 9.2812483 | 9.2893263  | 59     | 9.9919220 | 10.7106737 |
| 2      | 9.2818967 | 9.2899993  | 58     | 9.9918974 | 10.7100007 |
| 3      | 9.2825441 | 9.2906713  | 57     | 9.9918727 | 10.7093287 |
| 4      | 9.2831905 | 9.2913424  | 56     | 9.9918480 | 10.7086576 |
| 5      | 9.2838359 | 9.2920126  | 55     | 9.9918233 | 10.7079874 |
| 6      | 9.2844803 | 9.2926817  | 54     | 9.9917986 | 10.7073183 |
| 7      | 9.2851237 | 9.2933500  | 53     | 9.9917737 | 10.7066500 |
| 8      | 9.2857661 | 9.2940172  | 52     | 9.9917489 | 10.7059828 |
| 9      | 9.2864076 | 9.2946836  | 51     | 9.9917240 | 10.7053164 |
| 10     | 9.2870480 | 9.2953489  | 50     | 9.9916991 | 10.7046511 |
| 11     | 9.2876875 | 9.2960134  | 49     | 9.9916741 | 10.7039866 |
| 12     | 9.2883260 | 9.2966769  | 48     | 9.9916492 | 10.7033231 |
| 13     | 9.2889636 | 9.2973395  | 47     | 9.9916241 | 10.7026605 |
| 14     | 9.2896001 | 9.2980011  | 46     | 9.9915990 | 10.7019989 |
| 15     | 9.2902357 | 9.2986618  | 45     | 9.9915739 | 10.7013382 |
| 16     | 9.2908704 | 9.2993216  | 44     | 9.9915488 | 10.7006784 |
| 17     | 9.2915040 | 9.2999804  | 43     | 9.9915236 | 10.7000196 |
| 18     | 9.2921367 | 9.3006383  | 42     | 9.9914984 | 10.6993617 |
| 19     | 9.2927685 | 9.3012954  | 41     | 9.9914731 | 10.6987046 |
| 20     | 9.2933993 | 9.3019514  | 40     | 9.9914478 | 10.6980486 |
| 21     | 9.2940291 | 9.3026066  | 39     | 9.9914225 | 10.6973934 |
| 22     | 9.2946580 | 9.3032609  | 38     | 9.9913971 | 10.6967391 |
| 23     | 9.2952859 | 9.3039143  | 37     | 9.9913717 | 10.6960857 |
| 24     | 9.2959129 | 9.3045667  | 36     | 9.9913462 | 10.6954333 |
| 25     | 9.2965390 | 9.3052183  | 35     | 9.9913207 | 10.6947817 |
| 26     | 9.2971641 | 9.3058689  | 34     | 9.9912952 | 10.6941311 |
| 27     | 9.2977883 | 9.3065187  | 33     | 9.9912696 | 10.6934813 |
| 28     | 9.2984116 | 9.3071675  | 32     | 9.9912440 | 10.6928325 |
| 29     | 9.2990339 | 9.3078155  | 31     | 9.9912184 | 10.6921845 |
| 30     | 9.2996553 | 9.3084626  | 30     | 9.9911927 | 10.6915374 |



| Minut. | 11. Grad. |            |
|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |
| 30     | 9.2996553 | 9.3084626  |
| 31     | 9.3002758 | 9.3091088  |
| 32     | 9.3008953 | 9.3097541  |
| 33     | 9.3015140 | 9.3103985  |
| 34     | 9.3021317 | 9.3110421  |
| 35     | 9.3027485 | 9.3116848  |
| 36     | 9.3033644 | 9.3123266  |
| 37     | 9.3039794 | 9.3129675  |
| 38     | 9.3045934 | 9.3136076  |
| 39     | 9.3052066 | 9.3142468  |
| 40     | 9.3058189 | 9.3148851  |
| 41     | 9.3064303 | 9.3155226  |
| 42     | 9.3070407 | 9.3161592  |
| 43     | 9.3076503 | 9.3167950  |
| 44     | 9.3082590 | 9.3174299  |
| 45     | 9.3088668 | 9.3180640  |
| 46     | 9.3094737 | 9.3186972  |
| 47     | 9.3100798 | 9.3193295  |
| 48     | 9.3106849 | 9.3199611  |
| 49     | 9.3112892 | 9.3205918  |
| 50     | 9.3118926 | 9.3212216  |
| 51     | 9.3124951 | 9.3218506  |
| 52     | 9.3130968 | 9.3224788  |
| 53     | 9.3136976 | 9.3231061  |
| 54     | 9.3142975 | 9.3237327  |
| 55     | 9.3148965 | 9.3243584  |
| 56     | 9.3154947 | 9.3249832  |
| 57     | 9.3160921 | 9.3256073  |
| 58     | 9.3166885 | 9.3262305  |
| 59     | 9.3172841 | 9.3268529  |
| 60     | 9.3178789 | 9.3274745  |

| Minut. | 78. Grad. |            |
|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |
| 30     | 9.9911927 | 10.6915374 |
| 29     | 9.9911670 | 10.6908912 |
| 28     | 9.9911412 | 10.6902459 |
| 27     | 9.9911154 | 10.6896015 |
| 26     | 9.9910896 | 10.6889579 |
| 25     | 9.9910637 | 10.6883152 |
| 24     | 9.9910378 | 10.6876734 |
| 23     | 9.9910119 | 10.6870325 |
| 22     | 9.9909859 | 10.6863924 |
| 21     | 9.9909598 | 10.6857532 |
| 20     | 9.9909338 | 10.6851149 |
| 19     | 9.9909077 | 10.6844774 |
| 18     | 9.9908815 | 10.6838408 |
| 17     | 9.9908553 | 10.6832050 |
| 16     | 9.9908291 | 10.6825701 |
| 15     | 9.9908029 | 10.6819360 |
| 14     | 9.9907766 | 10.6813028 |
| 13     | 9.9907502 | 10.6806705 |
| 12     | 9.9907239 | 10.6800389 |
| 11     | 9.9906974 | 10.6794082 |
| 10     | 9.9906710 | 10.6787784 |
| 9      | 9.9906445 | 10.6781494 |
| 8      | 9.9906180 | 10.6775212 |
| 7      | 9.9905914 | 10.6768939 |
| 6      | 9.9905648 | 10.6762673 |
| 5      | 9.9905382 | 10.6756416 |
| 4      | 9.9905115 | 10.6750168 |
| 3      | 9.9904848 | 10.6743927 |
| 2      | 9.9904580 | 10.6737695 |
| 1      | 9.9904312 | 10.6731471 |
| 0      | 9.9904044 | 10.6725255 |



| 12. Grad. |           |            | 77. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.3178789 | 9.3274745  | 60        | 9.9904044 | 10.6725255 |
| 1         | 9.3184728 | 9.3280953  | 59        | 9.9903775 | 10.6719047 |
| 2         | 9.3190659 | 9.3287153  | 58        | 9.9903506 | 10.6712847 |
| 3         | 9.3196581 | 9.3293345  | 57        | 9.9903237 | 10.6706655 |
| 4         | 9.3202495 | 9.3299528  | 56        | 9.9902967 | 10.6700472 |
| 5         | 9.3208400 | 9.3305704  | 55        | 9.9902697 | 10.6694296 |
| 6         | 9.3214297 | 9.3311872  | 54        | 9.9902426 | 10.6688128 |
| 7         | 9.3220186 | 9.3318031  | 53        | 9.9902155 | 10.6681969 |
| 8         | 9.3226066 | 9.3324183  | 52        | 9.9901883 | 10.6675817 |
| 9         | 9.3231938 | 9.3330327  | 51        | 9.9901612 | 10.6669673 |
| 10        | 9.3237802 | 9.3336463  | 50        | 9.9901339 | 10.6663537 |
| 11        | 9.3243657 | 9.3342591  | 49        | 9.9901067 | 10.6657409 |
| 12        | 9.3249505 | 9.3348711  | 48        | 9.9900794 | 10.6651289 |
| 13        | 9.3255344 | 9.3354823  | 47        | 9.9900521 | 10.6645177 |
| 14        | 9.3261174 | 9.3360927  | 46        | 9.9900247 | 10.6639073 |
| 15        | 9.3266997 | 9.3367024  | 45        | 9.9899973 | 10.6632976 |
| 16        | 9.3272811 | 9.3373113  | 44        | 9.9899698 | 10.6626887 |
| 17        | 9.3278617 | 9.3379194  | 43        | 9.9899423 | 10.6620806 |
| 18        | 9.3284416 | 9.3385267  | 42        | 9.9899148 | 10.6614733 |
| 19        | 9.3290206 | 9.3391333  | 41        | 9.9898873 | 10.6608667 |
| 20        | 9.3295988 | 9.3397391  | 40        | 9.9898597 | 10.6602609 |
| 21        | 9.3301761 | 9.3403441  | 39        | 9.9898320 | 10.6596559 |
| 22        | 9.3307527 | 9.3409484  | 38        | 9.9898043 | 10.6590516 |
| 23        | 9.3313285 | 9.3415519  | 37        | 9.9897766 | 10.6584481 |
| 24        | 9.3319035 | 9.3421546  | 36        | 9.9897489 | 10.6578454 |
| 25        | 9.3324777 | 9.3427566  | 35        | 9.9897211 | 10.6572434 |
| 26        | 9.3330511 | 9.3433578  | 34        | 9.9896932 | 10.6566422 |
| 27        | 9.3336237 | 9.3439583  | 33        | 9.9896654 | 10.6560417 |
| 28        | 9.3341955 | 9.3445580  | 32        | 9.9896374 | 10.6554420 |
| 29        | 9.3347665 | 9.3451570  | 31        | 9.9896095 | 10.6548430 |
| 30        | 9.3353368 | 9.3457552  | 30        | 9.9895815 | 10.6542448 |

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| Minut. | 12. Grad. |            | Minut. | 77. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.3353368 | 9.3457552  | 30     | 9.9895815 | 10.6542448 |
| 31     | 9.3359062 | 9.3463527  | 29     | 9.9895535 | 10.6536473 |
| 32     | 9.3364749 | 9.3469494  | 28     | 9.9895254 | 10.6530506 |
| 33     | 9.3370428 | 9.3475454  | 27     | 9.9894973 | 10.6524546 |
| 34     | 9.3376099 | 9.3481407  | 26     | 9.9894692 | 10.6518593 |
| 35     | 9.3381762 | 9.3487352  | 25     | 9.9894410 | 10.6512648 |
| 36     | 9.3387418 | 9.3493290  | 24     | 9.9894128 | 10.6506710 |
| 37     | 9.3393065 | 9.3499220  | 23     | 9.9893845 | 10.6500780 |
| 38     | 9.3398706 | 9.3505143  | 22     | 9.9893562 | 10.6494857 |
| 39     | 9.3404338 | 9.3511059  | 21     | 9.9893279 | 10.6488941 |
| 40     | 9.3409963 | 9.3516968  | 20     | 9.9892995 | 10.6483032 |
| 41     | 9.3415580 | 9.3522869  | 19     | 9.9892711 | 10.6477131 |
| 42     | 9.3421190 | 9.3528763  | 18     | 9.9892427 | 10.6471237 |
| 43     | 9.3426792 | 9.3534650  | 17     | 9.9892142 | 10.6465350 |
| 44     | 9.3432386 | 9.3540530  | 16     | 9.9891856 | 10.6459470 |
| 45     | 9.3437973 | 9.3546402  | 15     | 9.9891571 | 10.6453598 |
| 46     | 9.3443552 | 9.3552267  | 14     | 9.9891285 | 10.6447733 |
| 47     | 9.3449124 | 9.3558127  | 13     | 9.9890998 | 10.6441874 |
| 48     | 9.3454688 | 9.3563977  | 12     | 9.9890711 | 10.6436023 |
| 49     | 9.3460245 | 9.3569821  | 11     | 9.9890424 | 10.6430179 |
| 50     | 9.3465794 | 9.3575658  | 10     | 9.9890137 | 10.6424342 |
| 51     | 9.3471336 | 9.3581487  | 9      | 9.9889849 | 10.6418513 |
| 52     | 9.3476870 | 9.3587310  | 8      | 9.9889560 | 10.6412690 |
| 53     | 9.3482397 | 9.3593126  | 7      | 9.9889271 | 10.6406874 |
| 54     | 9.3487917 | 9.3598935  | 6      | 9.9888982 | 10.6401065 |
| 55     | 9.3493429 | 9.3604736  | 5      | 9.9888693 | 10.6395264 |
| 56     | 9.3498934 | 9.3610531  | 4      | 9.9888403 | 10.6389469 |
| 57     | 9.3504432 | 9.3616319  | 3      | 9.9888113 | 10.6383681 |
| 58     | 9.3509922 | 9.3622100  | 2      | 9.9887822 | 10.6377900 |
| 59     | 9.3515405 | 9.3627874  | 1      | 9.9887531 | 10.6372126 |
| 60     | 9.3520880 | 9.3633641  | 0      | 9.9887239 | 10.6366359 |

N. 26.



| 13. Grad. |           |            | 76. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin  | Log. Tang. |
| 0         | 9.3520880 | 9.3633641  | 60        | 9.9887239 | 10.6366359 |
| 1         | 9.3526349 | 9.3639401  | 59        | 9.9886947 | 10.6360599 |
| 2         | 9.3531810 | 9.3645155  | 58        | 9.9886655 | 10.6354845 |
| 3         | 9.3537264 | 9.3650901  | 57        | 9.9886363 | 10.6349099 |
| 4         | 9.3542710 | 9.3656641  | 56        | 9.9886070 | 10.6343359 |
| 5         | 9.3548150 | 9.3662374  | 55        | 9.9885776 | 10.6337626 |
| 6         | 9.3553582 | 9.3668100  | 54        | 9.9885482 | 10.6331900 |
| 7         | 9.3559007 | 9.3673819  | 53        | 9.9885188 | 10.6326181 |
| 8         | 9.3564426 | 9.3679532  | 52        | 9.9884894 | 10.6320468 |
| 9         | 9.3569836 | 9.3685238  | 51        | 9.9884599 | 10.6314762 |
| 10        | 9.3575240 | 9.3690937  | 50        | 9.9884303 | 10.6309063 |
| 11        | 9.3580637 | 9.3696629  | 49        | 9.9884008 | 10.6303371 |
| 12        | 9.3586027 | 9.3702315  | 48        | 9.9883712 | 10.6297685 |
| 13        | 9.3591409 | 9.3707994  | 47        | 9.9883415 | 10.6292006 |
| 14        | 9.3596785 | 9.3713667  | 46        | 9.9883118 | 10.6286333 |
| 15        | 9.3602154 | 9.3719333  | 45        | 9.9882821 | 10.6280667 |
| 16        | 9.3607515 | 9.3724992  | 44        | 9.9882523 | 10.6275008 |
| 17        | 9.3612870 | 9.3730645  | 43        | 9.9882225 | 10.6269355 |
| 18        | 9.3618217 | 9.3736291  | 42        | 9.9881927 | 10.6263709 |
| 19        | 9.3623558 | 9.3741930  | 41        | 9.9881628 | 10.6258070 |
| 20        | 9.3628892 | 9.3747563  | 40        | 9.9881329 | 10.6252437 |
| 21        | 9.3634219 | 9.3753190  | 39        | 9.9881029 | 10.6246810 |
| 22        | 9.3639539 | 9.3758810  | 38        | 9.9880729 | 10.6241190 |
| 23        | 9.3644852 | 9.3764423  | 37        | 9.9880429 | 10.6235577 |
| 24        | 9.3650158 | 9.3770030  | 36        | 9.9880128 | 10.6229970 |
| 25        | 9.3655458 | 9.3775631  | 35        | 9.9879827 | 10.6224369 |
| 26        | 9.3660750 | 9.3781225  | 34        | 9.9879525 | 10.6218775 |
| 27        | 9.3666036 | 9.3786813  | 33        | 9.9879223 | 10.6213187 |
| 28        | 9.3671315 | 9.3792394  | 32        | 9.9878921 | 10.6207606 |
| 29        | 9.3676587 | 9.3797969  | 31        | 9.9878618 | 10.6202031 |
| 30        | 9.3681853 | 9.3803537  | 30        | 9.9878315 | 10.6196463 |



| 13. Grad. |           |            | 76. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.3681853 | 9.3803537  | 30        | 9.9878315 | 10.6196463 |
| 31        | 9.3687111 | 9.3809100  | 29        | 9.9878012 | 10.6190900 |
| 32        | 9.3692363 | 9.3814655  | 28        | 9.9877708 | 10.6185345 |
| 33        | 9.3697608 | 9.3820205  | 27        | 9.9877404 | 10.6179795 |
| 34        | 9.3702847 | 9.3825748  | 26        | 9.9877099 | 10.6174252 |
| 35        | 9.3708079 | 9.3831285  | 25        | 9.9876794 | 10.6168715 |
| 36        | 9.3713304 | 9.3836816  | 24        | 9.9876488 | 10.6163184 |
| 37        | 9.3718523 | 9.3842340  | 23        | 9.9876183 | 10.6157660 |
| 38        | 9.3723735 | 9.3847858  | 22        | 9.9875876 | 10.6152142 |
| 39        | 9.3728940 | 9.3853370  | 21        | 9.9875570 | 10.6146630 |
| 40        | 9.3734139 | 9.3858876  | 20        | 9.9875263 | 10.6141124 |
| 41        | 9.3739331 | 9.3864376  | 19        | 9.9874955 | 10.6135624 |
| 42        | 9.3744517 | 9.3869869  | 18        | 9.9874648 | 10.6130131 |
| 43        | 9.3749696 | 9.3875356  | 17        | 9.9874339 | 10.6124644 |
| 44        | 9.3754868 | 9.3880837  | 16        | 9.9874031 | 10.6119163 |
| 45        | 9.3760034 | 9.3886312  | 15        | 9.9873722 | 10.6113688 |
| 46        | 9.3765194 | 9.3891781  | 14        | 9.9873413 | 10.6108219 |
| 47        | 9.3770347 | 9.3897244  | 13        | 9.9873103 | 10.6102756 |
| 48        | 9.3775493 | 9.3902700  | 12        | 9.9872793 | 10.6097300 |
| 49        | 9.3780633 | 9.3908151  | 11        | 9.9872482 | 10.6091849 |
| 50        | 9.3785767 | 9.3913595  | 10        | 9.9872171 | 10.6086405 |
| 51        | 9.3790894 | 9.3919034  | 9         | 9.9871860 | 10.6080966 |
| 52        | 9.3796015 | 9.3924466  | 8         | 9.9871549 | 10.6075534 |
| 53        | 9.3801129 | 9.3929893  | 7         | 9.9871236 | 10.6070107 |
| 54        | 9.3806237 | 9.3935313  | 6         | 9.9870924 | 10.6064687 |
| 55        | 9.3811339 | 9.3940727  | 5         | 9.9870611 | 10.6059273 |
| 56        | 9.3816434 | 9.3946136  | 4         | 9.9870298 | 10.6053864 |
| 57        | 9.3821523 | 9.3951538  | 3         | 9.9869984 | 10.6048462 |
| 58        | 9.3826605 | 9.3956935  | 2         | 9.9869670 | 10.6043065 |
| 59        | 9.3831682 | 9.3962326  | 1         | 9.9869356 | 10.6037674 |
| 60        | 9.3836752 | 9.3967711  | 0         | 9.9869041 | 10.6032289 |



| Minut. | 14. Grad. |            | Minut. | 75. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.3836752 | 9.3967711  | 60     | 9.9869041 | 10.6032289 |
| 1      | 9.3841815 | 9.3973089  | 59     | 9.9868726 | 10.6026911 |
| 2      | 9.3846873 | 9.3978463  | 58     | 9.9868410 | 10.6021537 |
| 3      | 9.3851924 | 9.3983830  | 57     | 9.9868094 | 10.6016170 |
| 4      | 9.3856969 | 9.3989191  | 56     | 9.9867778 | 10.6010809 |
| 5      | 9.3862008 | 9.3994547  | 55     | 9.9867461 | 10.6005453 |
| 6      | 9.3867040 | 9.3999896  | 54     | 9.9867144 | 10.6000104 |
| 7      | 9.3872067 | 9.4005240  | 53     | 9.9866827 | 10.5994760 |
| 8      | 9.3877087 | 9.4010578  | 52     | 9.9866509 | 10.5989422 |
| 9      | 9.3882101 | 9.4015910  | 51     | 9.9866191 | 10.5984090 |
| 10     | 9.3887109 | 9.4021237  | 50     | 9.9865872 | 10.5978763 |
| 11     | 9.3892111 | 9.4026558  | 49     | 9.9865553 | 10.5973442 |
| 12     | 9.3897106 | 9.4031873  | 48     | 9.9865233 | 10.5968127 |
| 13     | 9.3902096 | 9.4037182  | 47     | 9.9864913 | 10.5962818 |
| 14     | 9.3907079 | 9.4042486  | 46     | 9.9864593 | 10.5957514 |
| 15     | 9.3912057 | 9.4047784  | 45     | 9.9864273 | 10.5952216 |
| 16     | 9.3917028 | 9.4053076  | 44     | 9.9863952 | 10.5946924 |
| 17     | 9.3921993 | 9.4058363  | 43     | 9.9863630 | 10.5941637 |
| 18     | 9.3926952 | 9.4063644  | 42     | 9.9863308 | 10.5936356 |
| 19     | 9.3931905 | 9.4068919  | 41     | 9.9862986 | 10.5931081 |
| 20     | 9.3936852 | 9.4074189  | 40     | 9.9862663 | 10.5925811 |
| 21     | 9.3941794 | 9.4079453  | 39     | 9.9862340 | 10.5920547 |
| 22     | 9.3946729 | 9.4084712  | 38     | 9.9862017 | 10.5915288 |
| 23     | 9.3951658 | 9.4089965  | 37     | 9.9861693 | 10.5910035 |
| 24     | 9.3956581 | 9.4095212  | 36     | 9.9861369 | 10.5904788 |
| 25     | 9.3961499 | 9.4100454  | 35     | 9.9861045 | 10.5899546 |
| 26     | 9.3966410 | 9.4105690  | 34     | 9.9860720 | 10.5894310 |
| 27     | 9.3971315 | 9.4110921  | 33     | 9.9860394 | 10.5889079 |
| 28     | 9.3976215 | 9.4116146  | 32     | 9.9860069 | 10.5883854 |
| 29     | 9.3981108 | 9.4121366  | 31     | 9.9859742 | 10.5878634 |
| 30     | 9.3985996 | 9.4126581  | 30     | 9.9859416 | 10.5873419 |



| Minut. | 13. Grad. |            | Minut. | 76. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.3681853 | 9.3803537  | 30     | 9.9878315 | 10.6196463 |
| 31     | 9.3687111 | 9.3809100  | 29     | 9.9878012 | 10.6190900 |
| 32     | 9.3692363 | 9.3814655  | 28     | 9.9877708 | 10.6185345 |
| 33     | 9.3697608 | 9.3820205  | 27     | 9.9877404 | 10.6179795 |
| 34     | 9.3702847 | 9.3825748  | 26     | 9.9877099 | 10.6174252 |
| 35     | 9.3708079 | 9.3831285  | 25     | 9.9876794 | 10.6168715 |
| 36     | 9.3713304 | 9.3836816  | 24     | 9.9876488 | 10.6163184 |
| 37     | 9.3718523 | 9.3842340  | 23     | 9.9876183 | 10.6157660 |
| 38     | 9.3723735 | 9.3847858  | 22     | 9.9875876 | 10.6152142 |
| 39     | 9.3728940 | 9.3853370  | 21     | 9.9875570 | 10.6146630 |
| 40     | 9.3734139 | 9.3858876  | 20     | 9.9875263 | 10.6141124 |
| 41     | 9.3739331 | 9.3864376  | 19     | 9.9874955 | 10.6135624 |
| 42     | 9.3744517 | 9.3869869  | 18     | 9.9874648 | 10.6130131 |
| 43     | 9.3749696 | 9.3875356  | 17     | 9.9874339 | 10.6124644 |
| 44     | 9.3754868 | 9.3880837  | 16     | 9.9874031 | 10.6119163 |
| 45     | 9.3760034 | 9.3886312  | 15     | 9.9873722 | 10.6113688 |
| 46     | 9.3765194 | 9.3891781  | 14     | 9.9873413 | 10.6108219 |
| 47     | 9.3770347 | 9.3897244  | 13     | 9.9873103 | 10.6102756 |
| 48     | 9.3775493 | 9.3902700  | 12     | 9.9872793 | 10.6097300 |
| 49     | 9.3780633 | 9.3908151  | 11     | 9.9872482 | 10.6091849 |
| 50     | 9.3785767 | 9.3913595  | 10     | 9.9872171 | 10.6086405 |
| 51     | 9.3790894 | 9.3919034  | 9      | 9.9871860 | 10.6080966 |
| 52     | 9.3796015 | 9.3924466  | 8      | 9.9871549 | 10.6075534 |
| 53     | 9.3801129 | 9.3929893  | 7      | 9.9871236 | 10.6070107 |
| 54     | 9.3806237 | 9.3935313  | 6      | 9.9870924 | 10.6064687 |
| 55     | 9.3811339 | 9.3940727  | 5      | 9.9870611 | 10.6059273 |
| 56     | 9.3816434 | 9.3946136  | 4      | 9.9870298 | 10.6053864 |
| 57     | 9.3821523 | 9.3951538  | 3      | 9.9869984 | 10.6048462 |
| 58     | 9.3826605 | 9.3956935  | 2      | 9.9869670 | 10.6043065 |
| 59     | 9.3831682 | 9.3962326  | 1      | 9.9869356 | 10.6037674 |
| 60     | 9.3836752 | 9.3967711  | 0      | 9.9869041 | 10.6032289 |



| Minut. | 14. Grad. |            | Minut. | 75. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.3836752 | 9.3967711  | 60     | 9.9869041 | 10.6032289 |
| 1      | 9.3841815 | 9.3973089  | 59     | 9.9868726 | 10.6026911 |
| 2      | 9.3846873 | 9.3978463  | 58     | 9.9868410 | 10.6021537 |
| 3      | 9.3851924 | 9.3983830  | 57     | 9.9868094 | 10.6016170 |
| 4      | 9.3856969 | 9.3989191  | 56     | 9.9867778 | 10.6010809 |
| 5      | 9.3862008 | 9.3994547  | 55     | 9.9867461 | 10.6005453 |
| 6      | 9.3867040 | 9.3999896  | 54     | 9.9867144 | 10.6000104 |
| 7      | 9.3872067 | 9.4005240  | 53     | 9.9866827 | 10.5994760 |
| 8      | 9.3877087 | 9.4010578  | 52     | 9.9866509 | 10.5989422 |
| 9      | 9.3882101 | 9.4015910  | 51     | 9.9866191 | 10.5984090 |
| 10     | 9.3887109 | 9.4021237  | 50     | 9.9865872 | 10.5978763 |
| 11     | 9.3892111 | 9.4026558  | 49     | 9.9865553 | 10.5973442 |
| 12     | 9.3897106 | 9.4031873  | 48     | 9.9865233 | 10.5968127 |
| 13     | 9.3902096 | 9.4037182  | 47     | 9.9864913 | 10.5962818 |
| 14     | 9.3907079 | 9.4042486  | 46     | 9.9864593 | 10.5957514 |
| 15     | 9.3912057 | 9.4047784  | 45     | 9.9864273 | 10.5952216 |
| 16     | 9.3917028 | 9.4053076  | 44     | 9.9863952 | 10.5946924 |
| 17     | 9.3921993 | 9.4058363  | 43     | 9.9863630 | 10.5941637 |
| 18     | 9.3926952 | 9.4063644  | 42     | 9.9863308 | 10.5936356 |
| 19     | 9.3931905 | 9.4068919  | 41     | 9.9862986 | 10.5931081 |
| 20     | 9.3936852 | 9.4074189  | 40     | 9.9862663 | 10.5925811 |
| 21     | 9.3941794 | 9.4079453  | 39     | 9.9862340 | 10.5920547 |
| 22     | 9.3946729 | 9.4084712  | 38     | 9.9862017 | 10.5915288 |
| 23     | 9.3951658 | 9.4089965  | 37     | 9.9861693 | 10.5910035 |
| 24     | 9.3956581 | 9.4095212  | 36     | 9.9861369 | 10.5904788 |
| 25     | 9.3961499 | 9.4100454  | 35     | 9.9861045 | 10.5899546 |
| 26     | 9.3966410 | 9.4105690  | 34     | 9.9860720 | 10.5894310 |
| 27     | 9.3971315 | 9.4110921  | 33     | 9.9860394 | 10.5889079 |
| 28     | 9.3976215 | 9.4116146  | 32     | 9.9860069 | 10.5883854 |
| 29     | 9.3981108 | 9.4121366  | 31     | 9.9859742 | 10.5878634 |
| 30     | 9.3985996 | 9.4126581  | 30     | 9.9859416 | 10.5873419 |



| 14. Grad. |           |            | 75. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.3985996 | 9.4126581  | 30        | 9.9859416 | 10.5873419 |
| 31        | 9.3990878 | 9.4131789  | 29        | 9.9859089 | 10.5868211 |
| 32        | 9.3995754 | 9.4136993  | 28        | 9.9858762 | 10.5863007 |
| 33        | 9.4000625 | 9.4142191  | 27        | 9.9858434 | 10.5857809 |
| 34        | 9.4005489 | 9.4147383  | 26        | 9.9858106 | 10.5852617 |
| 35        | 9.4010348 | 9.4152570  | 25        | 9.9857777 | 10.5847430 |
| 36        | 9.4015201 | 9.4157752  | 24        | 9.9857449 | 10.5842248 |
| 37        | 9.4020048 | 9.4162928  | 23        | 9.9857119 | 10.5837072 |
| 38        | 9.4024889 | 9.4168099  | 22        | 9.9856790 | 10.5831901 |
| 39        | 9.4029724 | 9.4173265  | 21        | 9.9856460 | 10.5826735 |
| 40        | 9.4034554 | 9.4178425  | 20        | 9.9856129 | 10.5821575 |
| 41        | 9.4039378 | 9.4183580  | 19        | 9.9855798 | 10.5816420 |
| 42        | 9.4044196 | 9.4188729  | 18        | 9.9855467 | 10.5811271 |
| 43        | 9.4049009 | 9.4193874  | 17        | 9.9855135 | 10.5806126 |
| 44        | 9.4053816 | 9.4199013  | 16        | 9.9854803 | 10.5800987 |
| 45        | 9.4058617 | 9.4204146  | 15        | 9.9854471 | 10.5795854 |
| 46        | 9.4063413 | 9.4209275  | 14        | 9.9854138 | 10.5790725 |
| 47        | 9.4068203 | 9.4214398  | 13        | 9.9853805 | 10.5785602 |
| 48        | 9.4072987 | 9.4219515  | 12        | 9.9853471 | 10.5780485 |
| 49        | 9.4077766 | 9.4224628  | 11        | 9.9853138 | 10.5775372 |
| 50        | 9.4082539 | 9.4229735  | 10        | 9.9852803 | 10.5770265 |
| 51        | 9.4087306 | 9.4234838  | 9         | 9.9852468 | 10.5765162 |
| 52        | 9.4092068 | 9.4239935  | 8         | 9.9852133 | 10.5760065 |
| 53        | 9.4096824 | 9.4245026  | 7         | 9.9851798 | 10.5754974 |
| 54        | 9.4101575 | 9.4250113  | 6         | 9.9851462 | 10.5749887 |
| 55        | 9.4106320 | 9.4255194  | 5         | 9.9851125 | 10.5744806 |
| 56        | 9.4111059 | 9.4260271  | 4         | 9.9850789 | 10.5739729 |
| 57        | 9.4115793 | 9.4265342  | 3         | 9.9850452 | 10.5734658 |
| 58        | 9.4120522 | 9.4270408  | 2         | 9.9850114 | 10.5729592 |
| 59        | 9.4125245 | 9.4275469  | 1         | 9.9849776 | 10.5724531 |
| 60        | 9.4129962 | 9.4280525  | 0         | 9.9849438 | 10.5719475 |

N. 30.



| Minut. | 15. Grad. |            | Minut. | 74. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.4129962 | 9.4280525  | 60     | 9.9849438 | 10.5719475 |
| 1      | 9.4134674 | 9.4285575  | 59     | 9.9849099 | 10.5714425 |
| 2      | 9.4139381 | 9.4290621  | 58     | 9.9848760 | 10.5709379 |
| 3      | 9.4144082 | 9.4295661  | 57     | 9.9848420 | 10.5704339 |
| 4      | 9.4148778 | 9.4300697  | 56     | 9.9848081 | 10.5699303 |
| 5      | 9.4153468 | 9.4305727  | 55     | 9.9847740 | 10.5694273 |
| 6      | 9.4158152 | 9.4310753  | 54     | 9.9847400 | 10.5689247 |
| 7      | 9.4162832 | 9.4315773  | 53     | 9.9847059 | 10.5684227 |
| 8      | 9.4167506 | 9.4320789  | 52     | 9.9846717 | 10.5679211 |
| 9      | 9.4172174 | 9.4325799  | 51     | 9.9846375 | 10.5674201 |
| 10     | 9.4176837 | 9.4330804  | 50     | 9.9846033 | 10.5669196 |
| 11     | 9.4181495 | 9.4335805  | 49     | 9.9845690 | 10.5664195 |
| 12     | 9.4186148 | 9.4340800  | 48     | 9.9845347 | 10.5659200 |
| 13     | 9.4190795 | 9.4345791  | 47     | 9.9845004 | 10.5654209 |
| 14     | 9.4195436 | 9.4350776  | 46     | 9.9844660 | 10.5649224 |
| 15     | 9.4200073 | 9.4355757  | 45     | 9.9844316 | 10.5644243 |
| 16     | 9.4204704 | 9.4360733  | 44     | 9.9843971 | 10.5639267 |
| 17     | 9.4209330 | 9.4365704  | 43     | 9.9843626 | 10.5634296 |
| 18     | 9.4213950 | 9.4370670  | 42     | 9.9843281 | 10.5629330 |
| 19     | 9.4218566 | 9.4375631  | 41     | 9.9842935 | 10.5624369 |
| 20     | 9.4223176 | 9.4380587  | 40     | 9.9842589 | 10.5619413 |
| 21     | 9.4227780 | 9.4385538  | 39     | 9.9842242 | 10.5614462 |
| 22     | 9.4232380 | 9.4390485  | 38     | 9.9841895 | 10.5609515 |
| 23     | 9.4236974 | 9.4395426  | 37     | 9.9841548 | 10.5604574 |
| 24     | 9.4241563 | 9.4400363  | 36     | 9.9841200 | 10.5599637 |
| 25     | 9.4246147 | 9.4405295  | 35     | 9.9840852 | 10.5594705 |
| 26     | 9.4250726 | 9.4410222  | 34     | 9.9840503 | 10.5589778 |
| 27     | 9.4255299 | 9.4415145  | 33     | 9.9840154 | 10.5584855 |
| 28     | 9.4259867 | 9.4420062  | 32     | 9.9839805 | 10.5579938 |
| 29     | 9.4264430 | 9.4424975  | 31     | 9.9839455 | 10.5575025 |
| 30     | 9.4268988 | 9.4429883  | 30     | 9.9839105 | 10.5570117 |



| Minut. | 15. Grad. |            |
|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |
| 30     | 9.4268988 | 9.4429883  |
| 31     | 9.4273541 | 9.4434786  |
| 32     | 9.4278089 | 9.4439685  |
| 33     | 9.4282631 | 9.4444579  |
| 34     | 9.4287169 | 9.4449468  |
| 35     | 9.4291701 | 9.4454352  |
| 36     | 9.4296228 | 9.4459232  |
| 37     | 9.4300750 | 9.4464107  |
| 38     | 9.4305267 | 9.4468978  |
| 39     | 9.4309779 | 9.4473843  |
| 40     | 9.4314286 | 9.4478704  |
| 41     | 9.4318788 | 9.4483561  |
| 42     | 9.4323285 | 9.4488413  |
| 43     | 9.4327777 | 9.4493260  |
| 44     | 9.4332264 | 9.4498102  |
| 45     | 9.4336746 | 9.4502940  |
| 46     | 9.4341223 | 9.4507774  |
| 47     | 9.4345694 | 9.4512602  |
| 48     | 9.4350161 | 9.4517427  |
| 49     | 9.4354623 | 9.4522246  |
| 50     | 9.4359080 | 9.4527061  |
| 51     | 9.4363532 | 9.4531872  |
| 52     | 9.4367980 | 9.4536678  |
| 53     | 9.4372422 | 9.4541479  |
| 54     | 9.4376859 | 9.4546276  |
| 55     | 9.4381292 | 9.4551069  |
| 56     | 9.4385719 | 9.4555857  |
| 57     | 9.4390142 | 9.4560641  |
| 58     | 9.4394560 | 9.4565420  |
| 59     | 9.4398973 | 9.4570194  |
| 60     | 9.4403381 | 9.4574964  |

| Minut. | 74. Grad. |            |
|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |
| 30     | 9.9839105 | 10.5570117 |
| 29     | 9.9838755 | 10.5565214 |
| 28     | 9.9838404 | 10.5560315 |
| 27     | 9.9838052 | 10.5555421 |
| 26     | 9.9837701 | 10.5550532 |
| 25     | 9.9837348 | 10.5545648 |
| 24     | 9.9836996 | 10.5540768 |
| 23     | 9.9836643 | 10.5535893 |
| 22     | 9.9836290 | 10.5531022 |
| 21     | 9.9835936 | 10.5526157 |
| 20     | 9.9835582 | 10.5521296 |
| 19     | 9.9835227 | 10.5516439 |
| 18     | 9.9834872 | 10.5511587 |
| 17     | 9.9834517 | 10.5506740 |
| 16     | 9.9834161 | 10.5501898 |
| 15     | 9.9833805 | 10.5497060 |
| 14     | 9.9833449 | 10.5492226 |
| 13     | 9.9833092 | 10.5487398 |
| 12     | 9.9832735 | 10.5482573 |
| 11     | 9.9832377 | 10.5477754 |
| 10     | 9.9832019 | 10.5472939 |
| 9      | 9.9831661 | 10.5468128 |
| 8      | 9.9831302 | 10.5463322 |
| 7      | 9.9830942 | 10.5458521 |
| 6      | 9.9830583 | 10.5453724 |
| 5      | 9.9830223 | 10.5448931 |
| 4      | 9.9829862 | 10.5444143 |
| 3      | 9.9829501 | 10.5439359 |
| 2      | 9.9829140 | 10.5434580 |
| 1      | 9.9828778 | 10.5429806 |
| 0      | 9.9828416 | 10.5425036 |



| Minut. | 16. Grad. |            | Minut. | 73. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.4403381 | 9.4574964  | 60     | 9.9828416 | 10.5425036 |
| 1      | 9.4407784 | 9.4579730  | 59     | 9.9828054 | 10.5420270 |
| 2      | 9.4412182 | 9.4584491  | 58     | 9.9827691 | 10.5415509 |
| 3      | 9.4416576 | 9.4589248  | 57     | 9.9827328 | 10.5410752 |
| 4      | 9.4420965 | 9.4594001  | 56     | 9.9826964 | 10.5405999 |
| 5      | 9.4425349 | 9.4598749  | 55     | 9.9826600 | 10.5401251 |
| 6      | 9.4429728 | 9.4603492  | 54     | 9.9826236 | 10.5396508 |
| 7      | 9.4434103 | 9.4608232  | 53     | 9.9825871 | 10.5391768 |
| 8      | 9.4438472 | 9.4612967  | 52     | 9.9825506 | 10.5387033 |
| 9      | 9.4442837 | 9.4617697  | 51     | 9.9825140 | 10.5382303 |
| 10     | 9.4447197 | 9.4622423  | 50     | 9.9824774 | 10.5377577 |
| 11     | 9.4451553 | 9.4627145  | 49     | 9.9824408 | 10.5372855 |
| 12     | 9.4455904 | 9.4631863  | 48     | 9.9824041 | 10.5368137 |
| 13     | 9.4460250 | 9.4636576  | 47     | 9.9823674 | 10.5363424 |
| 14     | 9.4464591 | 9.4641285  | 46     | 9.9823306 | 10.5358715 |
| 15     | 9.4468927 | 9.4645990  | 45     | 9.9822938 | 10.5354010 |
| 16     | 9.4473259 | 9.4650690  | 44     | 9.9822569 | 10.5349310 |
| 17     | 9.4477586 | 9.4655386  | 43     | 9.9822201 | 10.5344614 |
| 18     | 9.4481909 | 9.4660078  | 42     | 9.9821831 | 10.5339922 |
| 19     | 9.4486227 | 9.4664765  | 41     | 9.9821462 | 10.5335235 |
| 20     | 9.4490540 | 9.4669448  | 40     | 9.9821092 | 10.5330552 |
| 21     | 9.4494849 | 9.4674127  | 39     | 9.9820721 | 10.5325873 |
| 22     | 9.4499153 | 9.4678802  | 38     | 9.9820351 | 10.5321198 |
| 23     | 9.4503452 | 9.4683473  | 37     | 9.9819979 | 10.5316527 |
| 24     | 9.4507747 | 9.4688139  | 36     | 9.9819608 | 10.5311861 |
| 25     | 9.4512037 | 9.4692801  | 35     | 9.9819236 | 10.5307199 |
| 26     | 9.4516322 | 9.4697459  | 34     | 9.9818863 | 10.5302541 |
| 27     | 9.4520603 | 9.4702112  | 33     | 9.9818490 | 10.5297888 |
| 28     | 9.4524879 | 9.4706762  | 32     | 9.9818117 | 10.5293238 |
| 29     | 9.4529151 | 9.4711407  | 31     | 9.9817744 | 10.5288593 |
| 30     | 9.4533418 | 9.4716048  | 30     | 9.9817370 | 10.5283952 |



| 16. Grad. |           |            | 73. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.4533418 | 9.4716048  | 30        | 9.9817370 | 10.5283952 |
| 31        | 9.4537681 | 9.4720685  | 29        | 9.9816995 | 10.5279315 |
| 32        | 9.4541939 | 9.4725318  | 28        | 9.9816620 | 10.5274682 |
| 33        | 9.4546192 | 9.4729947  | 27        | 9.9816245 | 10.5270053 |
| 34        | 9.4550441 | 9.4734571  | 26        | 9.9815870 | 10.5265428 |
| 35        | 9.4554686 | 9.4739192  | 25        | 9.9815494 | 10.5260808 |
| 36        | 9.4558926 | 9.4743808  | 24        | 9.9815117 | 10.5256192 |
| 37        | 9.4563161 | 9.4748421  | 23        | 9.9814740 | 10.5251579 |
| 38        | 9.4567392 | 9.4753029  | 22        | 9.9814363 | 10.5246971 |
| 39        | 9.4571618 | 9.4757633  | 21        | 9.9813986 | 10.5242367 |
| 40        | 9.4575840 | 9.4762233  | 20        | 9.9813608 | 10.5237767 |
| 41        | 9.4580058 | 9.4766829  | 19        | 9.9813229 | 10.5233171 |
| 42        | 9.4584271 | 9.4771421  | 18        | 9.9812850 | 10.5228579 |
| 43        | 9.4588480 | 9.4776009  | 17        | 9.9812471 | 10.5223991 |
| 44        | 9.4592684 | 9.4780592  | 16        | 9.9812091 | 10.5219408 |
| 45        | 9.4596884 | 9.4785172  | 15        | 9.9811711 | 10.5214828 |
| 46        | 9.4601079 | 9.4789748  | 14        | 9.9811331 | 10.5210252 |
| 47        | 9.4605270 | 9.4794319  | 13        | 9.9810950 | 10.5205681 |
| 48        | 9.4609456 | 9.4798887  | 12        | 9.9810569 | 10.5201113 |
| 49        | 9.4613638 | 9.4803451  | 11        | 9.9810187 | 10.5196549 |
| 50        | 9.4617816 | 9.4808011  | 10        | 9.9809805 | 10.5191989 |
| 51        | 9.4621989 | 9.4812566  | 9         | 9.9809423 | 10.5187434 |
| 52        | 9.4626158 | 9.4817118  | 8         | 9.9809040 | 10.5182882 |
| 53        | 9.4630323 | 9.4821666  | 7         | 9.9808657 | 10.5178334 |
| 54        | 9.4634483 | 9.4826210  | 6         | 9.9808273 | 10.5173790 |
| 55        | 9.4638639 | 9.4830750  | 5         | 9.9807889 | 10.5169250 |
| 56        | 9.4642790 | 9.4835286  | 4         | 9.9807505 | 10.5164714 |
| 57        | 9.4646938 | 9.4839818  | 3         | 9.9807120 | 10.5160182 |
| 58        | 9.4651081 | 9.4844346  | 2         | 9.9806735 | 10.5155654 |
| 59        | 9.4655219 | 9.4848870  | 1         | 9.9806349 | 10.5151130 |
| 60        | 9.4659353 | 9.4853390  | 0         | 9.9805963 | 10.5146610 |



| Minut. | 17. Grad. |            | Minut. | 72. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.4659353 | 9.4853390  | 60     | 9.9805963 | 10.5146610 |
| 1      | 9.4663483 | 9.4857907  | 59     | 9.9805577 | 10.5142093 |
| 2      | 9.4667609 | 9.4862419  | 58     | 9.9805190 | 10.5137581 |
| 3      | 9.4671730 | 9.4866928  | 57     | 9.9804803 | 10.5133072 |
| 4      | 9.4675848 | 9.4871433  | 56     | 9.9804415 | 10.5128567 |
| 5      | 9.4679960 | 9.4875933  | 55     | 9.9804027 | 10.5124067 |
| 6      | 9.4684069 | 9.4880430  | 54     | 9.9803639 | 10.5119570 |
| 7      | 9.4688173 | 9.4884924  | 53     | 9.9803250 | 10.5115076 |
| 8      | 9.4692273 | 9.4889413  | 52     | 9.9802860 | 10.5110587 |
| 9      | 9.4696369 | 9.4893898  | 51     | 9.9802471 | 10.5106102 |
| 10     | 9.4700461 | 9.4898380  | 50     | 9.9802081 | 10.5101620 |
| 11     | 9.4704548 | 9.4902858  | 49     | 9.9801690 | 10.5097142 |
| 12     | 9.4708631 | 9.4907332  | 48     | 9.9801299 | 10.5092668 |
| 13     | 9.4712710 | 9.4911802  | 47     | 9.9800908 | 10.5088198 |
| 14     | 9.4716785 | 9.4916269  | 46     | 9.9800516 | 10.5083731 |
| 15     | 9.4720856 | 9.4920731  | 45     | 9.9800124 | 10.5079269 |
| 16     | 9.4724922 | 9.4925190  | 44     | 9.9799732 | 10.5074810 |
| 17     | 9.4728985 | 9.4929646  | 43     | 9.9799339 | 10.5070354 |
| 18     | 9.4733043 | 9.4934097  | 42     | 9.9798946 | 10.5065903 |
| 19     | 9.4737097 | 9.4938545  | 41     | 9.9798552 | 10.5061455 |
| 20     | 9.4741146 | 9.4942988  | 40     | 9.9798158 | 10.5057012 |
| 21     | 9.4745192 | 9.4947429  | 39     | 9.9797764 | 10.5052571 |
| 22     | 9.4749234 | 9.4951865  | 38     | 9.9797369 | 10.5048135 |
| 23     | 9.4753271 | 9.4956298  | 37     | 9.9796973 | 10.5043702 |
| 24     | 9.4757304 | 9.4960727  | 36     | 9.9796578 | 10.5039273 |
| 25     | 9.4761334 | 9.4965152  | 35     | 9.9796182 | 10.5034848 |
| 26     | 9.4765359 | 9.4969574  | 34     | 9.9795785 | 10.5030426 |
| 27     | 9.4769380 | 9.4973991  | 33     | 9.9795388 | 10.5026009 |
| 28     | 9.4773396 | 9.4978406  | 32     | 9.9794991 | 10.5021594 |
| 29     | 9.4777409 | 9.4982816  | 31     | 9.9794593 | 10.5017184 |
| 30     | 9.4781418 | 9.4987223  | 30     | 9.9794195 | 10.5012777 |

N. 35.

C 3



| Minut. | 17. Grad. |            | Minut. | 72. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.4781418 | 9.4987223  | 30     | 9.9794195 | 10.5012777 |
| 31     | 9.4785423 | 9.4991626  | 29     | 9.9793796 | 10.5008374 |
| 32     | 9.4789423 | 9.4996026  | 28     | 9.9793398 | 10.5003974 |
| 33     | 9.4793420 | 9.5000422  | 27     | 9.9792998 | 10.4999578 |
| 34     | 9.4797412 | 9.5004814  | 26     | 9.9792599 | 10.4995186 |
| 35     | 9.4801401 | 9.5009203  | 25     | 9.9792198 | 10.4990797 |
| 36     | 9.4805385 | 9.5013588  | 24     | 9.9791798 | 10.4986412 |
| 37     | 9.4809366 | 9.5017969  | 23     | 9.9791397 | 10.4982031 |
| 38     | 9.4813342 | 9.5022347  | 22     | 9.9790996 | 10.4977653 |
| 39     | 9.4817315 | 9.5026721  | 21     | 9.9790594 | 10.4973279 |
| 40     | 9.4821283 | 9.5031092  | 20     | 9.9790192 | 10.4968908 |
| 41     | 9.4825248 | 9.5035459  | 19     | 9.9789789 | 10.4964541 |
| 42     | 9.4829208 | 9.5039822  | 18     | 9.9789386 | 10.4960178 |
| 43     | 9.4833165 | 9.5044182  | 17     | 9.9788983 | 10.4955818 |
| 44     | 9.4837117 | 9.5048538  | 16     | 9.9788579 | 10.4951462 |
| 45     | 9.4841066 | 9.5052891  | 15     | 9.9788175 | 10.4947109 |
| 46     | 9.4845010 | 9.5057240  | 14     | 9.9787770 | 10.4942760 |
| 47     | 9.4848951 | 9.5061586  | 13     | 9.9787365 | 10.4938414 |
| 48     | 9.4852888 | 9.5065928  | 12     | 9.9786960 | 10.4934072 |
| 49     | 9.4856820 | 9.5070267  | 11     | 9.9786554 | 10.4929733 |
| 50     | 9.4860749 | 9.5074602  | 10     | 9.9786148 | 10.4925398 |
| 51     | 9.4864674 | 9.5078933  | 9      | 9.9785741 | 10.4921067 |
| 52     | 9.4868595 | 9.5083261  | 8      | 9.9785334 | 10.4916739 |
| 53     | 9.4872512 | 9.5087586  | 7      | 9.9784927 | 10.4912414 |
| 54     | 9.4876426 | 9.5091907  | 6      | 9.9784519 | 10.4908093 |
| 55     | 9.4880335 | 9.5096224  | 5      | 9.9784111 | 10.4903776 |
| 56     | 9.4884240 | 9.5100539  | 4      | 9.9783702 | 10.4899461 |
| 57     | 9.4888142 | 9.5104849  | 3      | 9.9783293 | 10.4895151 |
| 58     | 9.4892040 | 9.5109156  | 2      | 9.9782883 | 10.4890844 |
| 59     | 9.4895934 | 9.5113460  | 1      | 9.9782474 | 10.4886540 |
| 60     | 9.4899824 | 9.5117760  | 0      | 9.9782063 | 10.4882240 |



| 18. Grad. |           |            | 71. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.4899824 | 9.5117760  | 60        | 9.9782063 | 10.4882240 |
| 1         | 9.4903710 | 9.5122057  | 59        | 9.9781653 | 10.4877943 |
| 2         | 9.4907592 | 9.5126351  | 58        | 9.9781241 | 10.4873649 |
| 3         | 9.4911471 | 9.5130641  | 57        | 9.9780830 | 10.4869359 |
| 4         | 9.4915345 | 9.5134927  | 56        | 9.9780418 | 10.4865073 |
| 5         | 9.4919216 | 9.5139210  | 55        | 9.9780006 | 10.4860790 |
| 6         | 9.4923083 | 9.5143490  | 54        | 9.9779593 | 10.4856510 |
| 7         | 9.4926946 | 9.5147766  | 53        | 9.9779180 | 10.4852234 |
| 8         | 9.4930806 | 9.5152039  | 52        | 9.9778766 | 10.4847961 |
| 9         | 9.4934661 | 9.5156309  | 51        | 9.9778353 | 10.4843691 |
| 10        | 9.4938513 | 9.5160575  | 50        | 9.9777938 | 10.4839425 |
| 11        | 9.4942361 | 9.5164838  | 49        | 9.9777523 | 10.4835162 |
| 12        | 9.4946205 | 9.5169097  | 48        | 9.9777108 | 10.4830903 |
| 13        | 9.4950046 | 9.5173353  | 47        | 9.9776693 | 10.4826647 |
| 14        | 9.4953883 | 9.5177606  | 46        | 9.9776277 | 10.4822394 |
| 15        | 9.4957716 | 9.5181855  | 45        | 9.9775860 | 10.4818145 |
| 16        | 9.4961545 | 9.5186101  | 44        | 9.9775444 | 10.4813899 |
| 17        | 9.4965370 | 9.5190344  | 43        | 9.9775026 | 10.4809656 |
| 18        | 9.4969192 | 9.5194583  | 42        | 9.9774609 | 10.4805417 |
| 19        | 9.4973010 | 9.5198819  | 41        | 9.9774191 | 10.4801181 |
| 20        | 9.4976824 | 9.5203052  | 40        | 9.9773772 | 10.4796948 |
| 21        | 9.4980635 | 9.5207282  | 39        | 9.9773354 | 10.4792718 |
| 22        | 9.4984442 | 9.5211508  | 38        | 9.9772934 | 10.4788492 |
| 23        | 9.4988245 | 9.5215730  | 37        | 9.9772515 | 10.4784270 |
| 24        | 9.4992045 | 9.5219950  | 36        | 9.9772095 | 10.4780050 |
| 25        | 9.4995840 | 9.5224166  | 35        | 9.9771674 | 10.4775834 |
| 26        | 9.4999633 | 9.5228379  | 34        | 9.9771253 | 10.4771621 |
| 27        | 9.5003421 | 9.5232589  | 33        | 9.9770832 | 10.4767411 |
| 28        | 9.5007206 | 9.5236795  | 32        | 9.9770410 | 10.4763205 |
| 29        | 9.5010987 | 9.5240999  | 31        | 9.9769988 | 10.4759001 |
| 30        | 9.5014764 | 9.5245199  | 30        | 9.9769566 | 10.4764801 |



| Minut. | 18. Grad. |            | Minut. | 71. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.5014764 | 9.5245199  | 30     | 9.9769566 | 10.4754801 |
| 31     | 9.5018538 | 9.5249395  | 29     | 9.9769143 | 10.4750605 |
| 32     | 9.5022308 | 9.5253589  | 28     | 9.9768720 | 10.4746411 |
| 33     | 9.5026075 | 9.5257779  | 27     | 9.9768296 | 10.4742221 |
| 34     | 9.5029838 | 9.5261966  | 26     | 9.9767872 | 10.4738034 |
| 35     | 9.5033597 | 9.5266150  | 25     | 9.9767447 | 10.4733850 |
| 36     | 9.5037353 | 9.5270331  | 24     | 9.9767022 | 10.4729669 |
| 37     | 9.5041105 | 9.5274508  | 23     | 9.9766597 | 10.4725492 |
| 38     | 9.5044853 | 9.5278682  | 22     | 9.9766171 | 10.4721318 |
| 39     | 9.5048598 | 9.5282853  | 21     | 9.9765745 | 10.4717147 |
| 40     | 9.5052339 | 9.5287021  | 20     | 9.9765318 | 10.4712979 |
| 41     | 9.5056077 | 9.5291186  | 19     | 9.9764891 | 10.4708814 |
| 42     | 9.5059811 | 9.5295347  | 18     | 9.9764464 | 10.4704653 |
| 43     | 9.5063542 | 9.5299505  | 17     | 9.9764036 | 10.4700495 |
| 44     | 9.5067268 | 9.5303661  | 16     | 9.9763608 | 10.4696339 |
| 45     | 9.5070992 | 9.5307813  | 15     | 9.9763179 | 10.4692187 |
| 46     | 9.5074712 | 9.5311961  | 14     | 9.9762750 | 10.4688039 |
| 47     | 9.5078428 | 9.5316107  | 13     | 9.9762321 | 10.4683893 |
| 48     | 9.5082141 | 9.5320250  | 12     | 9.9761891 | 10.4679750 |
| 49     | 9.5085850 | 9.5324389  | 11     | 9.9761461 | 10.4675611 |
| 50     | 9.5089556 | 9.5328526  | 10     | 9.9761030 | 10.4671474 |
| 51     | 9.5093258 | 9.5332659  | 9      | 9.9760599 | 10.4667341 |
| 52     | 9.5096956 | 9.5336789  | 8      | 9.9760167 | 10.4663211 |
| 53     | 9.5100651 | 9.5340916  | 7      | 9.9759736 | 10.4659084 |
| 54     | 9.5104343 | 9.5345040  | 6      | 9.9759303 | 10.4654960 |
| 55     | 9.5108031 | 9.5349161  | 5      | 9.9758870 | 10.4650839 |
| 56     | 9.5111716 | 9.5353278  | 4      | 9.9758437 | 10.4646722 |
| 57     | 9.5115397 | 9.5357393  | 3      | 9.9758004 | 10.4642607 |
| 58     | 9.5119074 | 9.5361505  | 2      | 9.9757570 | 10.4638495 |
| 59     | 9.5122749 | 9.5365613  | 1      | 9.9757135 | 10.4634387 |
| 60     | 9.5126419 | 9.5369719  | 0      | 9.9756701 | 10.4630281 |



| Minut. | 19. Grad. |            | Minut. | 70. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.5126419 | 9.5369718  | 60     | 9.9756701 | 10.4630281 |
| 1      | 9.5130086 | 9.5373821  | 59     | 9.9756265 | 10.4626179 |
| 2      | 9.5133750 | 9.5377920  | 58     | 9.9755830 | 10.4622080 |
| 3      | 9.5137410 | 9.5382017  | 57     | 9.9755394 | 10.4617983 |
| 4      | 9.5141067 | 9.5386110  | 56     | 9.9754957 | 10.4613890 |
| 5      | 9.5144721 | 9.5390200  | 55     | 9.9754521 | 10.4609800 |
| 6      | 9.5148371 | 9.5394287  | 54     | 9.9754083 | 10.4605713 |
| 7      | 9.5152017 | 9.5398371  | 53     | 9.9753646 | 10.4601629 |
| 8      | 9.5155660 | 9.5402453  | 52     | 9.9753208 | 10.4597547 |
| 9      | 9.5159300 | 9.5406531  | 51     | 9.9752769 | 10.4593469 |
| 10     | 9.5162936 | 9.5410606  | 50     | 9.9752330 | 10.4589394 |
| 11     | 9.5166569 | 9.5414678  | 49     | 9.9751891 | 10.4585322 |
| 12     | 9.5170198 | 9.5418747  | 48     | 9.9751451 | 10.4581253 |
| 13     | 9.5173824 | 9.5422813  | 47     | 9.9751011 | 10.4577187 |
| 14     | 9.5177447 | 9.5426877  | 46     | 9.9750570 | 10.4573123 |
| 15     | 9.5181066 | 9.5430937  | 45     | 9.9750129 | 10.4569063 |
| 16     | 9.5184682 | 9.5434994  | 44     | 9.9749688 | 10.4565006 |
| 17     | 9.5188295 | 9.5439048  | 43     | 9.9749246 | 10.4560952 |
| 18     | 9.5191904 | 9.5443100  | 42     | 9.9748804 | 10.4556900 |
| 19     | 9.5195510 | 9.5447148  | 41     | 9.9748361 | 10.4552852 |
| 20     | 9.5199112 | 9.5451193  | 40     | 9.9747918 | 10.4548807 |
| 21     | 9.5202711 | 9.5455236  | 39     | 9.9747476 | 10.4544764 |
| 22     | 9.5206307 | 9.5459276  | 38     | 9.9747031 | 10.4540724 |
| 23     | 9.5209899 | 9.5463312  | 37     | 9.9746587 | 10.4536688 |
| 24     | 9.5213488 | 9.5467346  | 36     | 9.9746142 | 10.4532654 |
| 25     | 9.5217074 | 9.5471377  | 35     | 9.9745697 | 10.4528623 |
| 26     | 9.5220656 | 9.5475405  | 34     | 9.9745252 | 10.4524595 |
| 27     | 9.5224235 | 9.5479430  | 33     | 9.9744806 | 10.4520570 |
| 28     | 9.5227811 | 9.5483452  | 32     | 9.9744359 | 10.4516548 |
| 29     | 9.5231383 | 9.5487471  | 31     | 9.9743913 | 10.4512529 |
| 30     | 9.5234953 | 9.5491487  | 30     | 9.9743466 | 10.4508513 |



| 19. Grad. |           |            | 70. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.5234953 | 9.5491487  | 30        | 9.9743466 | 10.4508513 |
| 31        | 9.5238518 | 9.5495500  | 29        | 9.9743018 | 10.4504500 |
| 32        | 9.5242081 | 9.5499511  | 28        | 9.9742570 | 10.4500489 |
| 33        | 9.5245640 | 9.5503519  | 27        | 9.9742122 | 10.4496481 |
| 34        | 9.5249196 | 9.5507523  | 26        | 9.9741673 | 10.4492477 |
| 35        | 9.5252749 | 9.5511525  | 25        | 9.9741224 | 10.4488475 |
| 36        | 9.5256298 | 9.5515524  | 24        | 9.9740774 | 10.4484476 |
| 37        | 9.5259844 | 9.5519521  | 23        | 9.9740324 | 10.4480479 |
| 38        | 9.5263387 | 9.5523514  | 22        | 9.9739873 | 10.4476486 |
| 39        | 9.5266927 | 9.5527504  | 21        | 9.9739422 | 10.4472496 |
| 40        | 9.5270463 | 9.5531492  | 20        | 9.9738971 | 10.4468508 |
| 41        | 9.5273997 | 9.5535477  | 19        | 9.9738519 | 10.4464523 |
| 42        | 9.5277526 | 9.5539459  | 18        | 9.9738067 | 10.4460541 |
| 43        | 9.5281053 | 9.5543438  | 17        | 9.9737615 | 10.4456562 |
| 44        | 9.5284577 | 9.5547415  | 16        | 9.9737162 | 10.4452585 |
| 45        | 9.5288097 | 9.5551388  | 15        | 9.9736709 | 10.4448612 |
| 46        | 9.5291614 | 9.5555359  | 14        | 9.9736255 | 10.4444641 |
| 47        | 9.5295128 | 9.5559327  | 13        | 9.9735801 | 10.4440673 |
| 48        | 9.5298638 | 9.5563292  | 12        | 9.9735346 | 10.4436708 |
| 49        | 9.5302146 | 9.5567255  | 11        | 9.9734891 | 10.4432745 |
| 50        | 9.5305650 | 9.5571214  | 10        | 9.9734435 | 10.4428786 |
| 51        | 9.5309151 | 9.5575171  | 9         | 9.9733980 | 10.4424829 |
| 52        | 9.5312649 | 9.5579125  | 8         | 9.9733523 | 10.4420875 |
| 53        | 9.5316143 | 9.5583077  | 7         | 9.9733067 | 10.4416923 |
| 54        | 9.5319635 | 9.5587025  | 6         | 9.9732610 | 10.4412975 |
| 55        | 9.5323123 | 9.5590971  | 5         | 9.9732152 | 10.4409029 |
| 56        | 9.5326608 | 9.5594914  | 4         | 9.9731694 | 10.4405086 |
| 57        | 9.5330090 | 9.5598854  | 3         | 9.9731236 | 10.4401146 |
| 58        | 9.5333569 | 9.5602792  | 2         | 9.9730777 | 10.4397208 |
| 59        | 9.5337044 | 9.5606727  | 1         | 9.9730318 | 10.4393273 |
| 60        | 9.5340517 | 9.5610659  | 0         | 9.9729858 | 10.4389341 |

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| Minut. | 20. Grad. |            | Minut. | 69. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.5340517 | 9.5610659  | 60     | 9.9729858 | 10.4389341 |
| 1      | 9.5343986 | 9.5614588  | 59     | 9.9729398 | 10.4385412 |
| 2      | 9.5347452 | 9.5618515  | 58     | 9.9728938 | 10.4381485 |
| 3      | 9.5350915 | 9.5622439  | 57     | 9.9728477 | 10.4377561 |
| 4      | 9.5354375 | 9.5626360  | 56     | 9.9728016 | 10.4373640 |
| 5      | 9.5357832 | 9.5630278  | 55     | 9.9727554 | 10.4369722 |
| 6      | 9.5361286 | 9.5634194  | 54     | 9.9727092 | 10.4365806 |
| 7      | 9.5364737 | 9.5638107  | 53     | 9.9726629 | 10.4361893 |
| 8      | 9.5368184 | 9.5642018  | 52     | 9.9726166 | 10.4357982 |
| 9      | 9.5371628 | 9.5645925  | 51     | 9.9725703 | 10.4354075 |
| 10     | 9.5375070 | 9.5649831  | 50     | 9.9725239 | 10.4350169 |
| 11     | 9.5378508 | 9.5653733  | 49     | 9.9724775 | 10.4346267 |
| 12     | 9.5381943 | 9.5657633  | 48     | 9.9724310 | 10.4342367 |
| 13     | 9.5385375 | 9.5661530  | 47     | 9.9723845 | 10.4338470 |
| 14     | 9.5388804 | 9.5665424  | 46     | 9.9723380 | 10.4334576 |
| 15     | 9.5392230 | 9.5669316  | 45     | 9.9722914 | 10.4330684 |
| 16     | 9.5395653 | 9.5673205  | 44     | 9.9722448 | 10.4326795 |
| 17     | 9.5399073 | 9.5677091  | 43     | 9.9721981 | 10.4322909 |
| 18     | 9.5402489 | 9.5680975  | 42     | 9.9721514 | 10.4319025 |
| 19     | 9.5405903 | 9.5684856  | 41     | 9.9721047 | 10.4315144 |
| 20     | 9.5409314 | 9.5688735  | 40     | 9.9720579 | 10.4311265 |
| 21     | 9.5412721 | 9.5692611  | 39     | 9.9720110 | 10.4307389 |
| 22     | 9.5416126 | 9.5696484  | 38     | 9.9719642 | 10.4303516 |
| 23     | 9.5419527 | 9.5700355  | 37     | 9.9719172 | 10.4299645 |
| 24     | 9.5422926 | 9.5704223  | 36     | 9.9718703 | 10.4295777 |
| 25     | 9.5426321 | 9.5708088  | 35     | 9.9718233 | 10.4291912 |
| 26     | 9.5429713 | 9.5711951  | 34     | 9.9717762 | 10.4288049 |
| 27     | 9.5433103 | 9.5715811  | 33     | 9.9717291 | 10.4284189 |
| 28     | 9.5436489 | 9.5719669  | 32     | 9.9716820 | 10.4280331 |
| 29     | 9.5439873 | 9.5723524  | 31     | 9.9716348 | 10.4276476 |
| 30     | 9.5443253 | 9.5727377  | 30     | 9.9715876 | 10.4272623 |



| Minut. | 20. Grad. |            | Minut. | 69. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.5443253 | 9.5727377  | 30     | 9.9715876 | 10.4272623 |
| 31     | 9.5446630 | 9.5731227  | 29     | 9.9715404 | 10.4268773 |
| 32     | 9.5450005 | 9.5735074  | 28     | 9.9714931 | 10.4264926 |
| 33     | 9.5453376 | 9.5738919  | 27     | 9.9714457 | 10.4261081 |
| 34     | 9.5456745 | 9.5742761  | 26     | 9.9713984 | 10.4257239 |
| 35     | 9.5460110 | 9.5746601  | 25     | 9.9713509 | 10.4253399 |
| 36     | 9.5463472 | 9.5750438  | 24     | 9.9713035 | 10.4249562 |
| 37     | 9.5466832 | 9.5754272  | 23     | 9.9712560 | 10.4245728 |
| 38     | 9.5470189 | 9.5758104  | 22     | 9.9712084 | 10.4241896 |
| 39     | 9.5473542 | 9.5761934  | 21     | 9.9711608 | 10.4238066 |
| 40     | 9.5476893 | 9.5765761  | 20     | 9.9711132 | 10.4234239 |
| 41     | 9.5480240 | 9.5769585  | 19     | 9.9710655 | 10.4230415 |
| 42     | 9.5483585 | 9.5773407  | 18     | 9.9710178 | 10.4226593 |
| 43     | 9.5486927 | 9.5777226  | 17     | 9.9709701 | 10.4222774 |
| 44     | 9.5490266 | 9.5781043  | 16     | 9.9709223 | 10.4218957 |
| 45     | 9.5493602 | 9.5784858  | 15     | 9.9708744 | 10.4215242 |
| 46     | 9.5496935 | 9.5788669  | 14     | 9.9708265 | 10.4211331 |
| 47     | 9.5500265 | 9.5792479  | 13     | 9.9707786 | 10.4207521 |
| 48     | 9.5503592 | 9.5796286  | 12     | 9.9707306 | 10.4203714 |
| 49     | 9.5506916 | 9.5800090  | 11     | 9.9706826 | 10.4199910 |
| 50     | 9.5510237 | 9.5803892  | 10     | 9.9706346 | 10.4196108 |
| 51     | 9.5513556 | 9.5807691  | 9      | 9.9705865 | 10.4192309 |
| 52     | 9.5516871 | 9.5811488  | 8      | 9.9705383 | 10.4188512 |
| 53     | 9.5520184 | 9.5815282  | 7      | 9.9704902 | 10.4184718 |
| 54     | 9.5523494 | 9.5819074  | 6      | 9.9704419 | 10.4180926 |
| 55     | 9.5526801 | 9.5822864  | 5      | 9.9703937 | 10.4177136 |
| 56     | 9.5530105 | 9.5826651  | 4      | 9.9703454 | 10.4173349 |
| 57     | 9.5533406 | 9.5830435  | 3      | 9.9702970 | 10.4169565 |
| 58     | 9.5536704 | 9.5834217  | 2      | 9.9702486 | 10.4165783 |
| 59     | 9.5539999 | 9.5837997  | 1      | 9.9702002 | 10.4162003 |
| 60     | 9.5543292 | 9.5841774  | 0      | 9.9701517 | 10.4158226 |



| Minut. | 21. Grad. |            | Minut. | 68. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.5543292 | 9.5841774  | 60     | 9.9701517 | 10.4158226 |
| 1      | 9.5546581 | 9.5845549  | 59     | 9.9701032 | 10.4154451 |
| 2      | 9.5549868 | 9.5849321  | 58     | 9.9700547 | 10.4150679 |
| 3      | 9.5553152 | 9.5853091  | 57     | 9.9700061 | 10.4146909 |
| 4      | 9.5556433 | 9.5856859  | 56     | 9.9699574 | 10.4143141 |
| 5      | 9.5559711 | 9.5860624  | 55     | 9.9699087 | 10.4139376 |
| 6      | 9.5562987 | 9.5864386  | 54     | 9.9698600 | 10.4135614 |
| 7      | 9.5566259 | 9.5868147  | 53     | 9.9698112 | 10.4131853 |
| 8      | 9.5569529 | 9.5871904  | 52     | 9.9697624 | 10.4128096 |
| 9      | 9.5572796 | 9.5875660  | 51     | 9.9697136 | 10.4124340 |
| 10     | 9.5576060 | 9.5879413  | 50     | 9.9696647 | 10.4120587 |
| 11     | 9.5579321 | 9.5883163  | 49     | 9.9696158 | 10.4116837 |
| 12     | 9.5582579 | 9.5886912  | 48     | 9.9695668 | 10.4113088 |
| 13     | 9.5585835 | 9.5890657  | 47     | 9.9695177 | 10.4109343 |
| 14     | 9.5589088 | 9.5894401  | 46     | 9.9694687 | 10.4105599 |
| 15     | 9.5592338 | 9.5898142  | 45     | 9.9694196 | 10.4101858 |
| 16     | 9.5595585 | 9.5901881  | 44     | 9.9693704 | 10.4098119 |
| 17     | 9.5598829 | 9.5905617  | 43     | 9.9693212 | 10.4094383 |
| 18     | 9.5602071 | 9.5909351  | 42     | 9.9692720 | 10.4090649 |
| 19     | 9.5605310 | 9.5913082  | 41     | 9.9692227 | 10.4086918 |
| 20     | 9.5608546 | 9.5916812  | 40     | 9.9691734 | 10.4083188 |
| 21     | 9.5611779 | 9.5920539  | 39     | 9.9691240 | 10.4079461 |
| 22     | 9.5615010 | 9.5924263  | 38     | 9.9690746 | 10.4075737 |
| 23     | 9.5618237 | 9.5927985  | 37     | 9.9690252 | 10.4072015 |
| 24     | 9.5621462 | 9.5931705  | 36     | 9.9689757 | 10.4068295 |
| 25     | 9.5624685 | 9.5935422  | 35     | 9.9689262 | 10.4064577 |
| 26     | 9.5627904 | 9.5939138  | 34     | 9.9688766 | 10.4060862 |
| 27     | 9.5631121 | 9.5942851  | 33     | 9.9688270 | 10.4057149 |
| 28     | 9.5634335 | 9.5946561  | 32     | 9.9687773 | 10.4053439 |
| 29     | 9.5637546 | 9.5950269  | 31     | 9.9687276 | 10.4049731 |
| 30     | 9.5640754 | 9.5953975  | 30     | 9.9686779 | 10.4046025 |



| Minut. | 21. Grad. |            | Minut. | 68. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.5640754 | 9.5953975  | 30     | 9.9686779 | 10.4046025 |
| 31     | 9.5643960 | 9.5957679  | 29     | 9.9686281 | 10.4042321 |
| 32     | 9.5647163 | 9.5961380  | 28     | 9.9685783 | 10.4038620 |
| 33     | 9.5650363 | 9.5965079  | 27     | 9.9685284 | 10.4034921 |
| 34     | 9.5653561 | 9.5968776  | 26     | 9.9684785 | 10.4031224 |
| 35     | 9.5656756 | 9.5972470  | 25     | 9.9684286 | 10.4027530 |
| 36     | 9.5659948 | 9.5976162  | 24     | 9.9683786 | 10.4023838 |
| 37     | 9.5663137 | 9.5979852  | 23     | 9.9683285 | 10.4020148 |
| 38     | 9.5666324 | 9.5983540  | 22     | 9.9682784 | 10.4016460 |
| 39     | 9.5669508 | 9.5987225  | 21     | 9.9682283 | 10.4012775 |
| 40     | 9.5672689 | 9.5990908  | 20     | 9.9681781 | 10.4009092 |
| 41     | 9.5675868 | 9.5994588  | 19     | 9.9681279 | 10.4005412 |
| 42     | 9.5679044 | 9.5998267  | 18     | 9.9680777 | 10.4001733 |
| 43     | 9.5682217 | 9.6001943  | 17     | 9.9680274 | 10.3998057 |
| 44     | 9.5685387 | 9.6005617  | 16     | 9.9679771 | 10.3994383 |
| 45     | 9.5688555 | 9.6009289  | 15     | 9.9679267 | 10.3990711 |
| 46     | 9.5691721 | 9.6012958  | 14     | 9.9678763 | 10.3987042 |
| 47     | 9.5694883 | 9.6016625  | 13     | 9.9678258 | 10.3983375 |
| 48     | 9.5698043 | 9.6020290  | 12     | 9.9677753 | 10.3979710 |
| 49     | 9.5701200 | 9.6023953  | 11     | 9.9677247 | 10.3976047 |
| 50     | 9.5704355 | 9.6027613  | 10     | 9.9676741 | 10.3972387 |
| 51     | 9.5707506 | 9.6031271  | 9      | 9.9676235 | 10.3968729 |
| 52     | 9.5710656 | 9.6034927  | 8      | 9.9675728 | 10.3965073 |
| 53     | 9.5713802 | 9.6038581  | 7      | 9.9675221 | 10.3961419 |
| 54     | 9.5716946 | 9.6042233  | 6      | 9.9674713 | 10.3957767 |
| 55     | 9.5720087 | 9.6045882  | 5      | 9.9674205 | 10.3954118 |
| 56     | 9.5723226 | 9.6049529  | 4      | 9.9673697 | 10.3950471 |
| 57     | 9.5726362 | 9.6053174  | 3      | 9.9673188 | 10.3946826 |
| 58     | 9.5729495 | 9.6056817  | 2      | 9.9672679 | 10.3943183 |
| 59     | 9.5732626 | 9.6060457  | 1      | 9.9672169 | 10.3939543 |
| 60     | 9.5735754 | 9.6064096  | 0      | 9.9671659 | 10.3935904 |



| 22. Grad. |           |            | 67. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.5735754 | 9.6064096  | 60        | 9.9671659 | 10.3935904 |
| 1         | 9.5738880 | 9.6067732  | 59        | 9.9671148 | 10.3932268 |
| 2         | 9.5742003 | 9.6071366  | 58        | 9.9670637 | 10.3928634 |
| 3         | 9.5745123 | 9.6074997  | 57        | 9.9670125 | 10.3925003 |
| 4         | 9.5748240 | 9.6078627  | 56        | 9.9669614 | 10.3921373 |
| 5         | 9.5751356 | 9.6082254  | 55        | 9.9669101 | 10.3917746 |
| 6         | 9.5754468 | 9.6085880  | 54        | 9.9668588 | 10.3914120 |
| 7         | 9.5757578 | 9.6089503  | 53        | 9.9668075 | 10.3910497 |
| 8         | 9.5760685 | 9.6093124  | 52        | 9.9667562 | 10.3906876 |
| 9         | 9.5763790 | 9.6096742  | 51        | 9.9667048 | 10.3903258 |
| 10        | 9.5766892 | 9.6100359  | 50        | 9.9666533 | 10.3899641 |
| 11        | 9.5769991 | 9.6103973  | 49        | 9.9666018 | 10.3896027 |
| 12        | 9.5773088 | 9.6107586  | 48        | 9.9665503 | 10.3892414 |
| 13        | 9.5776183 | 9.6111196  | 47        | 9.9664987 | 10.3888804 |
| 14        | 9.5779275 | 9.6114804  | 46        | 9.9664471 | 10.3885196 |
| 15        | 9.5782364 | 9.6118409  | 45        | 9.9663954 | 10.3881591 |
| 16        | 9.5785450 | 9.6122013  | 44        | 9.9663437 | 10.3877987 |
| 17        | 9.5788535 | 9.6125615  | 43        | 9.9662920 | 10.3874385 |
| 18        | 9.5791616 | 9.6129214  | 42        | 9.9662402 | 10.3870786 |
| 19        | 9.5794695 | 9.6132812  | 41        | 9.9661884 | 10.3867188 |
| 20        | 9.5797772 | 9.6136407  | 40        | 9.9661365 | 10.3863593 |
| 21        | 9.5800845 | 9.6140000  | 39        | 9.9660846 | 10.3860000 |
| 22        | 9.5803917 | 9.6143591  | 38        | 9.9660326 | 10.3856409 |
| 23        | 9.5806986 | 9.6147180  | 37        | 9.9659806 | 10.3852820 |
| 24        | 9.5810052 | 9.6150766  | 36        | 9.9659285 | 10.3849234 |
| 25        | 9.5813116 | 9.6154351  | 35        | 9.9658764 | 10.3845649 |
| 26        | 9.5816177 | 9.6157934  | 34        | 9.9658243 | 10.3842066 |
| 27        | 9.5819236 | 9.6161514  | 33        | 9.9657721 | 10.3838486 |
| 28        | 9.5822292 | 9.6165093  | 32        | 9.9657199 | 10.3834907 |
| 29        | 9.5825345 | 9.6168669  | 31        | 9.9656677 | 10.3831331 |
| 30        | 9.5828397 | 9.6172243  | 30        | 9.9656153 | 10.3827757 |



| 22. Grad. |           |            | 67. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.5828397 | 9.6172243  | 30        | 9.9656153 | 10.3827757 |
| 31        | 9.5831445 | 9.6175815  | 29        | 9.9655630 | 10.3824185 |
| 32        | 9.5834491 | 9.6179385  | 28        | 9.9655106 | 10.3820615 |
| 33        | 9.5837535 | 9.6182953  | 27        | 9.9654582 | 10.3817047 |
| 34        | 9.5840576 | 9.6186519  | 26        | 9.9654057 | 10.3813481 |
| 35        | 9.5843615 | 9.6190083  | 25        | 9.9653532 | 10.3809917 |
| 36        | 9.5846651 | 9.6193645  | 24        | 9.9653006 | 10.3806355 |
| 37        | 9.5849685 | 9.6197205  | 23        | 9.9652480 | 10.3802795 |
| 38        | 9.5852716 | 9.6200762  | 22        | 9.9651953 | 10.3799238 |
| 39        | 9.5855745 | 9.6204318  | 21        | 9.9651426 | 10.3795682 |
| 40        | 9.5858771 | 9.6207872  | 20        | 9.9650899 | 10.3792128 |
| 41        | 9.5861795 | 9.6211423  | 19        | 9.9650371 | 10.3788577 |
| 42        | 9.5864816 | 9.6214973  | 18        | 9.9649843 | 10.3785027 |
| 43        | 9.5867835 | 9.6218520  | 17        | 9.9649314 | 10.3781480 |
| 44        | 9.5870851 | 9.6222066  | 16        | 9.9648785 | 10.3777934 |
| 45        | 9.5873865 | 9.6225609  | 15        | 9.9648256 | 10.3774391 |
| 46        | 9.5876876 | 9.6229150  | 14        | 9.9647726 | 10.3770850 |
| 47        | 9.5879885 | 9.6232690  | 13        | 9.9647195 | 10.3767310 |
| 48        | 9.5882892 | 9.6236227  | 12        | 9.9646665 | 10.3763773 |
| 49        | 9.5885896 | 9.6239763  | 11        | 9.9646133 | 10.3760237 |
| 50        | 9.5888897 | 9.6243296  | 10        | 9.9645602 | 10.3756704 |
| 51        | 9.5891897 | 9.6246827  | 9         | 9.9645069 | 10.3753173 |
| 52        | 9.5894893 | 9.6250356  | 8         | 9.9644537 | 10.3749644 |
| 53        | 9.5897888 | 9.6253884  | 7         | 9.9644004 | 10.3746116 |
| 54        | 9.5900880 | 9.6257409  | 6         | 9.9643470 | 10.3742591 |
| 55        | 9.5903869 | 9.6260932  | 5         | 9.9642937 | 10.3739068 |
| 56        | 9.5906856 | 9.6264454  | 4         | 9.9642402 | 10.3735546 |
| 57        | 9.5909841 | 9.6267973  | 3         | 9.9641868 | 10.3732027 |
| 58        | 9.5912823 | 9.6271491  | 2         | 9.9641332 | 10.3728509 |
| 59        | 9.5915803 | 9.6275006  | 1         | 9.9640797 | 10.3724994 |
| 60        | 9.5918780 | 9.6278519  | 0         | 9.9640261 | 10.3721481 |



| Minut. | 23. Grad. |            | Minut. | 66. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.5918780 | 9.6278519  | 60     | 9.9640261 | 10.3721481 |
| 1      | 9.5921755 | 9.6282031  | 59     | 9.9639724 | 10.3717969 |
| 2      | 9.5924728 | 9.6285540  | 58     | 9.9639187 | 10.3714460 |
| 3      | 9.5927698 | 9.6289048  | 57     | 9.9638650 | 10.3710952 |
| 4      | 9.5930666 | 9.6292553  | 56     | 9.9638112 | 10.3707447 |
| 5      | 9.5933631 | 9.6296057  | 55     | 9.9637574 | 10.3703943 |
| 6      | 9.5936594 | 9.6299558  | 54     | 9.9637036 | 10.3700442 |
| 7      | 9.5939555 | 9.6303058  | 53     | 9.9636496 | 10.3696942 |
| 8      | 9.5942513 | 9.6306556  | 52     | 9.9635957 | 10.3693444 |
| 9      | 9.5945469 | 9.6310052  | 51     | 9.9635417 | 10.3689948 |
| 10     | 9.5948422 | 9.6313545  | 50     | 9.9634877 | 10.3686455 |
| 11     | 9.5951373 | 9.6317037  | 49     | 9.9634336 | 10.3682963 |
| 12     | 9.5954322 | 9.6320527  | 48     | 9.9633795 | 10.3679473 |
| 13     | 9.5957268 | 9.6324015  | 47     | 9.9633253 | 10.3675985 |
| 14     | 9.5960212 | 9.6327501  | 46     | 9.9632711 | 10.3672499 |
| 15     | 9.5963154 | 9.6330985  | 45     | 9.9632168 | 10.3669015 |
| 16     | 9.5966093 | 9.6334468  | 44     | 9.9631625 | 10.3665532 |
| 17     | 9.5969030 | 9.6337948  | 43     | 9.9631082 | 10.3662052 |
| 18     | 9.5971965 | 9.6341426  | 42     | 9.9630538 | 10.3658574 |
| 19     | 9.5974897 | 9.6344903  | 41     | 9.9629994 | 10.3655097 |
| 20     | 9.5977827 | 9.6348378  | 40     | 9.9629449 | 10.3651622 |
| 21     | 9.5980754 | 9.6351850  | 39     | 9.9628904 | 10.3648150 |
| 22     | 9.5983679 | 9.6355321  | 38     | 9.9628358 | 10.3644679 |
| 23     | 9.5986602 | 9.6358790  | 37     | 9.9627812 | 10.3641210 |
| 24     | 9.5989523 | 9.6362257  | 36     | 9.9627266 | 10.3637743 |
| 25     | 9.5992441 | 9.6365722  | 35     | 9.9626719 | 10.3634278 |
| 26     | 9.5995357 | 9.6369185  | 34     | 9.9626172 | 10.3630815 |
| 27     | 9.5998271 | 9.6372646  | 33     | 9.9625624 | 10.3627354 |
| 28     | 9.6001181 | 9.6376106  | 32     | 9.9625076 | 10.3623894 |
| 29     | 9.6004090 | 9.6379563  | 31     | 9.9624527 | 10.3620437 |
| 30     | 9.6006997 | 9.6383019  | 30     | 9.9623978 | 10.3616981 |



| 23. Grad. |           |            | 66. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.6006997 | 9.6383019  | 30        | 9.9623978 | 10.3616981 |
| 31        | 9.6009901 | 9.6386473  | 29        | 9.9623428 | 10.3613527 |
| 32        | 9.6012803 | 9.6389925  | 28        | 9.9622878 | 10.3610075 |
| 33        | 9.6015703 | 9.6393375  | 27        | 9.9622328 | 10.3606625 |
| 34        | 9.6018600 | 9.6396823  | 26        | 9.9621777 | 10.3603177 |
| 35        | 9.6021495 | 9.6400269  | 25        | 9.9621226 | 10.3599731 |
| 36        | 9.6024388 | 9.6403714  | 24        | 9.9620674 | 10.3596286 |
| 37        | 9.6027278 | 9.6407156  | 23        | 9.9620122 | 10.3592844 |
| 38        | 9.6030166 | 9.6410597  | 22        | 9.9619569 | 10.3589403 |
| 39        | 9.6033052 | 9.6414036  | 21        | 9.9619016 | 10.3585964 |
| 40        | 9.6035936 | 9.6417473  | 20        | 9.9618463 | 10.3582527 |
| 41        | 9.6038817 | 9.6420908  | 19        | 9.9617909 | 10.3579092 |
| 42        | 9.6041696 | 9.6424342  | 18        | 9.9617355 | 10.3575658 |
| 43        | 9.6044573 | 9.6427773  | 17        | 9.9616800 | 10.3572227 |
| 44        | 9.6047448 | 9.6431203  | 16        | 9.9616245 | 10.3568797 |
| 45        | 9.6050320 | 9.6434631  | 15        | 9.9615689 | 10.3565369 |
| 46        | 9.6053190 | 9.6438057  | 14        | 9.9615133 | 10.3561943 |
| 47        | 9.6056057 | 9.6441481  | 13        | 9.9614576 | 10.3558519 |
| 48        | 9.6058923 | 9.6444903  | 12        | 9.9614020 | 10.3555097 |
| 49        | 9.6061786 | 9.6448324  | 11        | 9.9613463 | 10.3551676 |
| 50        | 9.6064647 | 9.6451743  | 10        | 9.9612904 | 10.3548257 |
| 51        | 9.6067506 | 9.6455160  | 9         | 9.9612346 | 10.3544840 |
| 52        | 9.6070362 | 9.6458575  | 8         | 9.9611787 | 10.3541425 |
| 53        | 9.6073216 | 9.6461988  | 7         | 9.9611228 | 10.3538012 |
| 54        | 9.6076068 | 9.6465400  | 6         | 9.9610668 | 10.3534600 |
| 55        | 9.6078918 | 9.6468810  | 5         | 9.9610108 | 10.3531190 |
| 56        | 9.6081765 | 9.6472217  | 4         | 9.9609548 | 10.3527783 |
| 57        | 9.6084611 | 9.6475624  | 3         | 9.9608987 | 10.3524376 |
| 58        | 9.6087454 | 9.6479028  | 2         | 9.9608426 | 10.3520972 |
| 59        | 9.6090294 | 9.6482431  | 1         | 9.9607864 | 10.3517569 |
| 60        | 9.6093133 | 9.6485831  | 0         | 9.9607302 | 10.3514169 |



| Minut. | 24. Grad. |            |
|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |
| 0      | 9.6093133 | 9.6485831  |
| 1      | 9.6095969 | 9.6489230  |
| 2      | 9.6098803 | 9.6492628  |
| 3      | 9.6101635 | 9.6496023  |
| 4      | 9.6104465 | 9.6499417  |
| 5      | 9.6107293 | 9.6502809  |
| 6      | 9.6110118 | 9.6506199  |
| 7      | 9.6112941 | 9.6509587  |
| 8      | 9.6115762 | 9.6512974  |
| 9      | 9.6118580 | 9.6516359  |
| 10     | 9.6121397 | 9.6519742  |
| 11     | 9.6124211 | 9.6523123  |
| 12     | 9.6127023 | 9.6526503  |
| 13     | 9.6129833 | 9.6529881  |
| 14     | 9.6132641 | 9.6533257  |
| 15     | 9.6135446 | 9.6536631  |
| 16     | 9.6138250 | 9.6540004  |
| 17     | 9.6141051 | 9.6543375  |
| 18     | 9.6143850 | 9.6546744  |
| 19     | 9.6146647 | 9.6550112  |
| 20     | 9.6149441 | 9.6553477  |
| 21     | 9.6152234 | 9.6556841  |
| 22     | 9.6155024 | 9.6560204  |
| 23     | 9.6157812 | 9.6563564  |
| 24     | 9.6160598 | 9.6566923  |
| 25     | 9.6163382 | 9.6570280  |
| 26     | 9.6166164 | 9.6573636  |
| 27     | 9.6168944 | 9.6576989  |
| 28     | 9.6171721 | 9.6580341  |
| 29     | 9.6174496 | 9.6583692  |
| 30     | 9.6177270 | 9.6587041  |

N. 51.

| Minut. | 65. Grad. |            |
|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |
| 60     | 9.9607302 | 10.3514169 |
| 59     | 9.9606739 | 10.3510770 |
| 58     | 9.9606176 | 10.3507372 |
| 57     | 9.9605612 | 10.3503977 |
| 56     | 9.9605048 | 10.3500583 |
| 55     | 9.9604484 | 10.3497191 |
| 54     | 9.9603919 | 10.3493801 |
| 53     | 9.9603354 | 10.3490413 |
| 52     | 9.9602788 | 10.3487026 |
| 51     | 9.9602222 | 10.3483641 |
| 50     | 9.9601655 | 10.3480258 |
| 49     | 9.9601088 | 10.3476877 |
| 48     | 9.9600520 | 10.3473497 |
| 47     | 9.9599952 | 10.3470119 |
| 46     | 9.9599384 | 10.3466743 |
| 45     | 9.9598815 | 10.3463369 |
| 44     | 9.9598246 | 10.3459996 |
| 43     | 9.9597676 | 10.3456625 |
| 42     | 9.9597106 | 10.3453256 |
| 41     | 9.9596535 | 10.3449888 |
| 40     | 9.9595964 | 10.3446523 |
| 39     | 9.9595393 | 10.3443159 |
| 38     | 9.9594821 | 10.3439796 |
| 37     | 9.9594248 | 10.3436436 |
| 36     | 9.9593675 | 10.3433077 |
| 35     | 9.9593102 | 10.3429720 |
| 34     | 9.9592528 | 10.3426364 |
| 33     | 9.9591954 | 10.3423011 |
| 32     | 9.9591380 | 10.3419659 |
| 31     | 9.9590805 | 10.3416308 |
| 30     | 9.9590229 | 10.3412960 |

D 2



| 24. Grad. |           |            | 65. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.6177270 | 9.6587041  | 30        | 9.9590229 | 10.3412960 |
| 31        | 9.6180041 | 9.6590387  | 29        | 9.9589653 | 10.3409613 |
| 32        | 9.6182809 | 9.6593733  | 28        | 9.9589077 | 10.3406267 |
| 33        | 9.6185576 | 9.6597076  | 27        | 9.9588500 | 10.3402924 |
| 34        | 9.6188341 | 9.6600418  | 26        | 9.9587923 | 10.3399582 |
| 35        | 9.6191103 | 9.6603758  | 25        | 9.9587345 | 10.3396242 |
| 36        | 9.6193864 | 9.6607097  | 24        | 9.9586767 | 10.3392903 |
| 37        | 9.6196622 | 9.6610434  | 23        | 9.9586188 | 10.3389566 |
| 38        | 9.6199378 | 9.6613769  | 22        | 9.9585609 | 10.3386231 |
| 39        | 9.6202132 | 9.6617103  | 21        | 9.9585030 | 10.3382897 |
| 40        | 9.6204884 | 9.6620434  | 20        | 9.9584450 | 10.3379566 |
| 41        | 9.6207634 | 9.6623765  | 19        | 9.9583869 | 10.3376235 |
| 42        | 9.6210382 | 9.6627093  | 18        | 9.9583288 | 10.3372907 |
| 43        | 9.6213127 | 9.6630420  | 17        | 9.9582707 | 10.3369580 |
| 44        | 9.6215871 | 9.6633745  | 16        | 9.9582125 | 10.3366255 |
| 45        | 9.6218612 | 9.6637069  | 15        | 9.9581543 | 10.3362931 |
| 46        | 9.6221351 | 9.6640391  | 14        | 9.9580961 | 10.3359609 |
| 47        | 9.6224088 | 9.6643711  | 13        | 9.9580378 | 10.3356289 |
| 48        | 9.6226824 | 9.6647030  | 12        | 9.9579794 | 10.3352970 |
| 49        | 9.6229557 | 9.6650346  | 11        | 9.9579210 | 10.3349654 |
| 50        | 9.6232287 | 9.6653662  | 10        | 9.9578626 | 10.3346338 |
| 51        | 9.6235016 | 9.6656975  | 9         | 9.9578041 | 10.3343025 |
| 52        | 9.6237743 | 9.6660288  | 8         | 9.9577456 | 10.3339712 |
| 53        | 9.6240467 | 9.6663598  | 7         | 9.9576870 | 10.3336402 |
| 54        | 9.6243190 | 9.6666907  | 6         | 9.9576284 | 10.3333093 |
| 55        | 9.6245911 | 9.6670214  | 5         | 9.9575697 | 10.3329786 |
| 56        | 9.6248629 | 9.6673519  | 4         | 9.9575110 | 10.3326481 |
| 57        | 9.6251346 | 9.6676823  | 3         | 9.9574522 | 10.3323177 |
| 58        | 9.6254060 | 9.6680126  | 2         | 9.9573934 | 10.3319874 |
| 59        | 9.6256772 | 9.6683426  | 1         | 9.9573346 | 10.3316574 |
| 60        | 9.6259483 | 9.6686725  | 0         | 9.9572757 | 10.3313275 |

N. 52.



| Minut. | 25. Grad. |            | Minut. | 64. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.6259483 | 9.6686725  | 60     | 9.9572757 | 10.3313275 |
| 1      | 9.6262191 | 9.6690023  | 59     | 9.9572168 | 10.3309977 |
| 2      | 9.6264897 | 9.6693319  | 58     | 9.9571578 | 10.3306681 |
| 3      | 9.6267601 | 9.6696613  | 57     | 9.9570988 | 10.3303387 |
| 4      | 9.6270303 | 9.6699906  | 56     | 9.9570397 | 10.3300094 |
| 5      | 9.6273003 | 9.6703197  | 55     | 9.9569806 | 10.3296803 |
| 6      | 9.6275701 | 9.6706486  | 54     | 9.9569215 | 10.3293514 |
| 7      | 9.6278397 | 9.6709774  | 53     | 9.9568623 | 10.3290226 |
| 8      | 9.6281090 | 9.6713060  | 52     | 9.9568030 | 10.3286940 |
| 9      | 9.6283782 | 9.6716345  | 51     | 9.9567437 | 10.3283655 |
| 10     | 9.6286472 | 9.6719628  | 50     | 9.9566844 | 10.3280372 |
| 11     | 9.6289160 | 9.6722910  | 49     | 9.9566250 | 10.3277090 |
| 12     | 9.6291845 | 9.6726190  | 48     | 9.9565656 | 10.3273810 |
| 13     | 9.6294529 | 9.6729468  | 47     | 9.9565061 | 10.3270532 |
| 14     | 9.6297211 | 9.6732745  | 46     | 9.9564466 | 10.3267255 |
| 15     | 9.6299890 | 9.6736020  | 45     | 9.9563870 | 10.3263980 |
| 16     | 9.6302568 | 9.6739294  | 44     | 9.9563274 | 10.3260706 |
| 17     | 9.6305243 | 9.6742566  | 43     | 9.9562678 | 10.3257434 |
| 18     | 9.6307917 | 9.6745836  | 42     | 9.9562081 | 10.3254164 |
| 19     | 9.6310589 | 9.6749105  | 41     | 9.9561483 | 10.3250895 |
| 20     | 9.6313258 | 9.6752372  | 40     | 9.9560886 | 10.3247628 |
| 21     | 9.6315926 | 9.6755638  | 39     | 9.9560287 | 10.3244362 |
| 22     | 9.6318591 | 9.6758902  | 38     | 9.9559689 | 10.3241097 |
| 23     | 9.6321255 | 9.6762165  | 37     | 9.9559089 | 10.3237835 |
| 24     | 9.6323916 | 9.6765426  | 36     | 9.9558490 | 10.3234574 |
| 25     | 9.6326576 | 9.6768686  | 35     | 9.9557890 | 10.3231314 |
| 26     | 9.6329233 | 9.6771944  | 34     | 9.9557289 | 10.3228056 |
| 27     | 9.6331889 | 9.6775201  | 33     | 9.9556688 | 10.3224799 |
| 28     | 9.6334542 | 9.6778456  | 32     | 9.9556087 | 10.3221544 |
| 29     | 9.6337194 | 9.6781709  | 31     | 9.9555485 | 10.3218291 |
| 30     | 9.6339844 | 9.6784961  | 30     | 9.9554882 | 10.3215039 |



| Minut. | 25. Grad. |            | Minut. | 64. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.6339844 | 9.6784961  | 30     | 9.9554882 | 10.3215039 |
| 31     | 9.6342491 | 9.6788211  | 29     | 9.9554280 | 10.3211789 |
| 32     | 9.6345137 | 9.6791460  | 28     | 9.9553676 | 10.3208540 |
| 33     | 9.6347780 | 9.6794708  | 27     | 9.9553073 | 10.3205292 |
| 34     | 9.6350422 | 9.6797953  | 26     | 9.9552469 | 10.3202047 |
| 35     | 9.6353062 | 9.6801198  | 25     | 9.9551864 | 10.3198803 |
| 36     | 9.6355699 | 9.6804440  | 24     | 9.9551259 | 10.3195560 |
| 37     | 9.6358335 | 9.6807682  | 23     | 9.9550653 | 10.3192318 |
| 38     | 9.6360969 | 9.6810921  | 22     | 9.9550047 | 10.3189079 |
| 39     | 9.6363601 | 9.6814160  | 21     | 9.9549441 | 10.3185840 |
| 40     | 9.6366231 | 9.6817396  | 20     | 9.9548834 | 10.3182604 |
| 41     | 9.6368859 | 9.6820632  | 19     | 9.9548227 | 10.3179368 |
| 42     | 9.6371484 | 9.6823865  | 18     | 9.9547619 | 10.3176135 |
| 43     | 9.6374108 | 9.6827098  | 17     | 9.9547011 | 10.3172902 |
| 44     | 9.6376731 | 9.6830328  | 16     | 9.9546402 | 10.3169672 |
| 45     | 9.6379351 | 9.6833557  | 15     | 9.9545793 | 10.3166443 |
| 46     | 9.6381969 | 9.6836785  | 14     | 9.9545184 | 10.3163215 |
| 47     | 9.6384585 | 9.6840011  | 13     | 9.9544574 | 10.3159989 |
| 48     | 9.6387199 | 9.6843236  | 12     | 9.9543963 | 10.3156764 |
| 49     | 9.6389812 | 9.6846459  | 11     | 9.9543352 | 10.3153541 |
| 50     | 9.6392422 | 9.6849681  | 10     | 9.9542741 | 10.3150319 |
| 51     | 9.6395030 | 9.6852901  | 9      | 9.9542129 | 10.3147099 |
| 52     | 9.6397637 | 9.6856120  | 8      | 9.9541517 | 10.3143880 |
| 53     | 9.6400241 | 9.6859338  | 7      | 9.9540904 | 10.3140662 |
| 54     | 9.6402844 | 9.6862553  | 6      | 9.9540291 | 10.3137447 |
| 55     | 9.6405445 | 9.6865768  | 5      | 9.9539677 | 10.3134232 |
| 56     | 9.6408044 | 9.6868981  | 4      | 9.9539063 | 10.3131019 |
| 57     | 9.6410640 | 9.6872192  | 3      | 9.9538448 | 10.3127808 |
| 58     | 9.6413235 | 9.6875402  | 2      | 9.9537833 | 10.3124598 |
| 59     | 9.6415828 | 9.6878611  | 1      | 9.9537218 | 10.3121389 |
| 60     | 9.6418420 | 9.6881818  | 0      | 9.9536602 | 10.3118182 |



## 26. Grad.

| Minut. | Log. Sin. | Log. Tang. |
|--------|-----------|------------|
| 0      | 9.6418420 | 9.6881818  |
| 1      | 9.6421009 | 9.6885023  |
| 2      | 9.6423596 | 9.6888227  |
| 3      | 9.6426182 | 9.6891430  |
| 4      | 9.6428765 | 9.6894631  |
| 5      | 9.6431347 | 9.6897831  |
| 6      | 9.6433926 | 9.6901030  |
| 7      | 9.6436504 | 9.6904226  |
| 8      | 9.6439080 | 9.6907422  |
| 9      | 9.6441654 | 9.6910616  |
| 10     | 9.6444226 | 9.6913809  |
| 11     | 9.6446796 | 9.6917000  |
| 12     | 9.6449365 | 9.6920189  |
| 13     | 9.6451931 | 9.6923378  |
| 14     | 9.6454496 | 9.6926565  |
| 15     | 9.6457058 | 9.6929750  |
| 16     | 9.6459619 | 9.6932934  |
| 17     | 9.6462178 | 9.6936117  |
| 18     | 9.6464735 | 9.6939298  |
| 19     | 9.6467290 | 9.6942478  |
| 20     | 9.6469844 | 9.6945656  |
| 21     | 9.6472395 | 9.6948833  |
| 22     | 9.6474945 | 9.6952009  |
| 23     | 9.6477492 | 9.6955183  |
| 24     | 9.6480038 | 9.6958355  |
| 25     | 9.6482582 | 9.6961527  |
| 26     | 9.6485124 | 9.6964697  |
| 27     | 9.6487665 | 9.6967865  |
| 28     | 9.6490203 | 9.6971032  |
| 29     | 9.6492740 | 9.6974198  |
| 30     | 9.6495274 | 9.6977363  |

## 63. Grad.

| Minut. | Log. Sin. | Log. Tang. |
|--------|-----------|------------|
| 60     | 9.9536602 | 10.3118182 |
| 59     | 9.9535985 | 10.3114977 |
| 58     | 9.9535369 | 10.3111773 |
| 57     | 9.9534751 | 10.3108570 |
| 56     | 9.9534134 | 10.3105369 |
| 55     | 9.9533515 | 10.3102169 |
| 54     | 9.9532897 | 10.3098970 |
| 53     | 9.9532278 | 10.3095774 |
| 52     | 9.9531658 | 10.3092578 |
| 51     | 9.9531038 | 10.3089384 |
| 50     | 9.9530418 | 10.3086191 |
| 49     | 9.9529797 | 10.3083000 |
| 48     | 9.9529175 | 10.3079811 |
| 47     | 9.9528553 | 10.3076622 |
| 46     | 9.9527931 | 10.3073435 |
| 45     | 9.9527308 | 10.3070250 |
| 44     | 9.9526685 | 10.3067066 |
| 43     | 9.9526061 | 10.3063883 |
| 42     | 9.9525437 | 10.3060702 |
| 41     | 9.9524813 | 10.3057522 |
| 40     | 9.9524188 | 10.3054344 |
| 39     | 9.9523562 | 10.3051167 |
| 38     | 9.9522936 | 10.3047991 |
| 37     | 9.9522310 | 10.3044817 |
| 36     | 9.9521683 | 10.3041645 |
| 35     | 9.9521055 | 10.3038473 |
| 34     | 9.9520428 | 10.3035303 |
| 33     | 9.9519799 | 10.3032135 |
| 32     | 9.9519171 | 10.3028968 |
| 31     | 9.9518541 | 10.3025802 |
| 30     | 9.9517912 | 10.3022637 |



| 26. Grad. |           |            | 63. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.6495274 | 9.6977363  | 30        | 9.9517912 | 10.3022637 |
| 31        | 9.6497807 | 9.6980526  | 29        | 9.9517282 | 10.3019474 |
| 32        | 9.6500338 | 9.6983687  | 28        | 9.9516651 | 10.3016313 |
| 33        | 9.6502868 | 9.6986847  | 27        | 9.9516020 | 10.3013153 |
| 34        | 9.6505395 | 9.6990006  | 26        | 9.9515389 | 10.3009994 |
| 35        | 9.6507920 | 9.6993164  | 25        | 9.9514757 | 10.3006836 |
| 36        | 9.6510444 | 9.6996320  | 24        | 9.9514124 | 10.3003680 |
| 37        | 9.6512966 | 9.6999474  | 23        | 9.9513492 | 10.3000526 |
| 38        | 9.6515486 | 9.7002628  | 22        | 9.9512858 | 10.2997372 |
| 39        | 9.6518004 | 9.7005780  | 21        | 9.9512224 | 10.2994220 |
| 40        | 9.6520521 | 9.7008930  | 20        | 9.9511590 | 10.2991070 |
| 41        | 9.6523035 | 9.7012080  | 19        | 9.9510956 | 10.2987920 |
| 42        | 9.6525548 | 9.7015227  | 18        | 9.9510320 | 10.2984773 |
| 43        | 9.6528059 | 9.7018374  | 17        | 9.9509685 | 10.2981626 |
| 44        | 9.6530568 | 9.7021519  | 16        | 9.9509049 | 10.2978481 |
| 45        | 9.6533075 | 9.7024663  | 15        | 9.9508412 | 10.2975337 |
| 46        | 9.6535581 | 9.7027805  | 14        | 9.9507775 | 10.2972195 |
| 47        | 9.6538084 | 9.7030946  | 13        | 9.9507138 | 10.2969054 |
| 48        | 9.6540586 | 9.7034086  | 12        | 9.9506500 | 10.2965914 |
| 49        | 9.6543086 | 9.7037225  | 11        | 9.9505861 | 10.2962775 |
| 50        | 9.6545584 | 9.7040362  | 10        | 9.9505223 | 10.2959638 |
| 51        | 9.6548081 | 9.7043497  | 9         | 9.9504583 | 10.2956503 |
| 52        | 9.6550575 | 9.7046632  | 8         | 9.9503944 | 10.2953368 |
| 53        | 9.6553068 | 9.7049765  | 7         | 9.9503303 | 10.2950235 |
| 54        | 9.6555559 | 9.7052897  | 6         | 9.9502663 | 10.2947103 |
| 55        | 9.6558048 | 9.7056027  | 5         | 9.9502022 | 10.2943973 |
| 56        | 9.6560536 | 9.7059156  | 4         | 9.9501380 | 10.2940844 |
| 57        | 9.6563021 | 9.7062284  | 3         | 9.9500738 | 10.2937716 |
| 58        | 9.6565505 | 9.7065410  | 2         | 9.9500095 | 10.2934590 |
| 59        | 9.6567987 | 9.7068535  | 1         | 9.9499452 | 10.2931465 |
| 60        | 9.6570468 | 9.7071659  | 0         | 9.9498809 | 10.2928341 |



| 27. Grad. |           |            | 62. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.6570468 | 9.7071659  | 60        | 9.9498809 | 10.2928341 |
| 1         | 9.6572946 | 9.7074781  | 59        | 9.9498165 | 10.2925219 |
| 2         | 9.6575423 | 9.7077902  | 58        | 9.9497521 | 10.2922098 |
| 3         | 9.6577898 | 9.7081022  | 57        | 9.9496876 | 10.2918978 |
| 4         | 9.6580371 | 9.7084141  | 56        | 9.9496230 | 10.2915859 |
| 5         | 9.6582842 | 9.7087258  | 55        | 9.9495585 | 10.2912742 |
| 6         | 9.6585312 | 9.7090374  | 54        | 9.9494938 | 10.2909626 |
| 7         | 9.6587780 | 9.7093488  | 53        | 9.9494292 | 10.2906512 |
| 8         | 9.6590246 | 9.7096601  | 52        | 9.9493645 | 10.2903399 |
| 9         | 9.6592710 | 9.7099713  | 51        | 9.9492997 | 10.2900287 |
| 10        | 9.6595173 | 9.7102824  | 50        | 9.9492349 | 10.2897176 |
| 11        | 9.6597634 | 9.7105933  | 49        | 9.9491700 | 10.2894067 |
| 12        | 9.6600093 | 9.7109041  | 48        | 9.9491051 | 10.2890959 |
| 13        | 9.6602550 | 9.7112148  | 47        | 9.9490402 | 10.2887852 |
| 14        | 9.6605005 | 9.7115254  | 46        | 9.9489752 | 10.2884746 |
| 15        | 9.6607459 | 9.7118358  | 45        | 9.9489101 | 10.2881642 |
| 16        | 9.6609911 | 9.7121461  | 44        | 9.9488450 | 10.2878539 |
| 17        | 9.6612361 | 9.7124562  | 43        | 9.9487799 | 10.2875438 |
| 18        | 9.6614810 | 9.7127662  | 42        | 9.9487147 | 10.2872338 |
| 19        | 9.6617257 | 9.7130761  | 41        | 9.9486495 | 10.2869239 |
| 20        | 9.6619701 | 9.7133859  | 40        | 9.9485842 | 10.2866141 |
| 21        | 9.6622145 | 9.7136956  | 39        | 9.9485189 | 10.2863044 |
| 22        | 9.6624586 | 9.7140051  | 38        | 9.9484535 | 10.2859949 |
| 23        | 9.6627026 | 9.7143145  | 37        | 9.9483881 | 10.2856855 |
| 24        | 9.6629464 | 9.7146237  | 36        | 9.9483227 | 10.2853763 |
| 25        | 9.6631900 | 9.7149329  | 35        | 9.9482572 | 10.2850671 |
| 26        | 9.6634335 | 9.7152419  | 34        | 9.9481916 | 10.2847581 |
| 27        | 9.6636768 | 9.7155508  | 33        | 9.9481260 | 10.2844492 |
| 28        | 9.6639199 | 9.7158595  | 32        | 9.9480604 | 10.2841405 |
| 29        | 9.6641628 | 9.7161682  | 31        | 9.9479947 | 10.2838318 |
| 30        | 9.6644056 | 9.7164767  | 30        | 9.9479289 | 10.2835233 |



| 27. Grad. |           |            | 62. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.6644056 | 9.7164767  | 30        | 9.9479289 | 10.2835233 |
| 31        | 9.6646482 | 9.7167851  | 29        | 9.9478631 | 10.2832149 |
| 32        | 9.6648906 | 9.7170933  | 28        | 9.9477973 | 10.2829067 |
| 33        | 9.6651329 | 9.7174014  | 27        | 9.9477314 | 10.2825986 |
| 34        | 9.6653749 | 9.7177094  | 26        | 9.9476655 | 10.2822906 |
| 35        | 9.6656168 | 9.7180173  | 25        | 9.9475995 | 10.2819827 |
| 36        | 9.6658586 | 9.7183251  | 24        | 9.9475335 | 10.2816749 |
| 37        | 9.6661001 | 9.7186327  | 23        | 9.9474674 | 10.2813673 |
| 38        | 9.6663415 | 9.7189402  | 22        | 9.9474013 | 10.2810598 |
| 39        | 9.6665828 | 9.7192476  | 21        | 9.9473352 | 10.2807524 |
| 40        | 9.6668238 | 9.7195549  | 20        | 9.9472689 | 10.2804451 |
| 41        | 9.6670647 | 9.7198620  | 19        | 9.9472027 | 10.2801380 |
| 42        | 9.6673054 | 9.7201690  | 18        | 9.9471364 | 10.2798310 |
| 43        | 9.6675459 | 9.7204759  | 17        | 9.9470700 | 10.2795241 |
| 44        | 9.6677863 | 9.7207827  | 16        | 9.9470036 | 10.2792173 |
| 45        | 9.6680265 | 9.7210893  | 15        | 9.9469372 | 10.2789107 |
| 46        | 9.6682665 | 9.7213958  | 14        | 9.9468707 | 10.2786042 |
| 47        | 9.6685064 | 9.7217022  | 13        | 9.9468042 | 10.2782978 |
| 48        | 9.6687461 | 9.7220085  | 12        | 9.9467376 | 10.2779915 |
| 49        | 9.6689856 | 9.7223147  | 11        | 9.9466710 | 10.2776853 |
| 50        | 9.6692250 | 9.7226207  | 10        | 9.9466043 | 10.2773793 |
| 51        | 9.6694642 | 9.7229266  | 9         | 9.9465376 | 10.2770734 |
| 52        | 9.6697032 | 9.7232324  | 8         | 9.9464708 | 10.2767676 |
| 53        | 9.6699420 | 9.7235381  | 7         | 9.9464040 | 10.2764619 |
| 54        | 9.6701807 | 9.7238436  | 6         | 9.9463371 | 10.2761564 |
| 55        | 9.6704192 | 9.7241490  | 5         | 9.9462702 | 10.2758510 |
| 56        | 9.6706576 | 9.7244543  | 4         | 9.9462032 | 10.2755457 |
| 57        | 9.6708958 | 9.7247595  | 3         | 9.9461362 | 10.2752405 |
| 58        | 9.6711338 | 9.7250646  | 2         | 9.9460692 | 10.2749354 |
| 59        | 9.6713716 | 9.7253695  | 1         | 9.9460021 | 10.2746305 |
| 60        | 9.6716093 | 9.7256744  | 0         | 9.9459349 | 10.2743256 |



| 28. Grad. |           |            | 61. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.6716093 | 9.7256744  | 60        | 9.9459349 | 10.2743256 |
| 1         | 9.6718468 | 9.7259791  | 59        | 9.9458677 | 10.2740209 |
| 2         | 9.6720841 | 9.7262837  | 58        | 9.9458005 | 10.2737163 |
| 3         | 9.6723213 | 9.7265881  | 57        | 9.9457332 | 10.2734119 |
| 4         | 9.6725583 | 9.7268925  | 56        | 9.9456659 | 10.2731075 |
| 5         | 9.6727952 | 9.7271967  | 55        | 9.9455985 | 10.2728033 |
| 6         | 9.6730319 | 9.7275008  | 54        | 9.9455310 | 10.2724992 |
| 7         | 9.6732684 | 9.7278048  | 53        | 9.9454636 | 10.2721952 |
| 8         | 9.6735047 | 9.7281087  | 52        | 9.9453960 | 10.2718913 |
| 9         | 9.6737409 | 9.7284124  | 51        | 9.9453285 | 10.2715876 |
| 10        | 9.6739769 | 9.7287161  | 50        | 9.9452609 | 10.2712839 |
| 11        | 9.6742128 | 9.7290196  | 49        | 9.9451932 | 10.2709804 |
| 12        | 9.6744485 | 9.7293230  | 48        | 9.9451255 | 10.2706770 |
| 13        | 9.6746840 | 9.7296263  | 47        | 9.9450577 | 10.2703737 |
| 14        | 9.6749194 | 9.7299295  | 46        | 9.9449899 | 10.2700705 |
| 15        | 9.6751546 | 9.7302325  | 45        | 9.9449220 | 10.2697675 |
| 16        | 9.6753896 | 9.7305354  | 44        | 9.9448541 | 10.2694646 |
| 17        | 9.6756245 | 9.7308383  | 43        | 9.9447862 | 10.2691617 |
| 18        | 9.6758592 | 9.7311410  | 42        | 9.9447182 | 10.2688590 |
| 19        | 9.6760937 | 9.7314436  | 41        | 9.9446501 | 10.2685564 |
| 20        | 9.6763281 | 9.7317460  | 40        | 9.9445821 | 10.2682540 |
| 21        | 9.6765623 | 9.7320484  | 39        | 9.9445139 | 10.2679516 |
| 22        | 9.6767963 | 9.7323506  | 38        | 9.9444457 | 10.2676494 |
| 23        | 9.6770302 | 9.7326527  | 37        | 9.9443775 | 10.2673473 |
| 24        | 9.6772640 | 9.7329547  | 36        | 9.9443092 | 10.2670453 |
| 25        | 9.6774975 | 9.7332566  | 35        | 9.9442409 | 10.2667434 |
| 26        | 9.6777309 | 9.7335584  | 34        | 9.9441725 | 10.2664416 |
| 27        | 9.6779642 | 9.7338601  | 33        | 9.9441041 | 10.2661399 |
| 28        | 9.6781972 | 9.7341616  | 32        | 9.9440356 | 10.2658384 |
| 29        | 9.6784301 | 9.7344631  | 31        | 9.9439671 | 10.2655369 |
| 30        | 9.6786629 | 9.7347644  | 30        | 9.9438985 | 10.2652356 |

Num. 59.



| Minut. | 28. Grad. |            | Minut. | 61. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.6786629 | 9.7347644  | 30     | 9.9438985 | 10.2652356 |
| 31     | 9.6788955 | 9.7350656  | 29     | 9.9438299 | 10.2649344 |
| 32     | 9.6791279 | 9.7353667  | 28     | 9.9437612 | 10.2646333 |
| 33     | 9.6793602 | 9.7356677  | 27     | 9.9436925 | 10.2643323 |
| 34     | 9.6795923 | 9.7359685  | 26     | 9.9436238 | 10.2640315 |
| 35     | 9.6798243 | 9.7362693  | 25     | 9.9435549 | 10.2637307 |
| 36     | 9.6800560 | 9.7365699  | 24     | 9.9434861 | 10.2634301 |
| 37     | 9.6802877 | 9.7368705  | 23     | 9.9434172 | 10.2631295 |
| 38     | 9.6805191 | 9.7371709  | 22     | 9.9433482 | 10.2628291 |
| 39     | 9.6807504 | 9.7374712  | 21     | 9.9432792 | 10.2625288 |
| 40     | 9.6809816 | 9.7377714  | 20     | 9.9432102 | 10.2622286 |
| 41     | 9.6812126 | 9.7380715  | 19     | 9.9431411 | 10.2619285 |
| 42     | 9.6814434 | 9.7383714  | 18     | 9.9430720 | 10.2616286 |
| 43     | 9.6816741 | 9.7386713  | 17     | 9.9430028 | 10.2613287 |
| 44     | 9.6819046 | 9.7389710  | 16     | 9.9429335 | 10.2610290 |
| 45     | 9.6821349 | 9.7392707  | 15     | 9.9428643 | 10.2607293 |
| 46     | 9.6823651 | 9.7395702  | 14     | 9.9427949 | 10.2604298 |
| 47     | 9.6825952 | 9.7398696  | 13     | 9.9427255 | 10.2601304 |
| 48     | 9.6828250 | 9.7401689  | 12     | 9.9426561 | 10.2598311 |
| 49     | 9.6830548 | 9.7404681  | 11     | 9.9425866 | 10.2595319 |
| 50     | 9.6832843 | 9.7407672  | 10     | 9.9425171 | 10.2592328 |
| 51     | 9.6835137 | 9.7410662  | 9      | 9.9424476 | 10.2589338 |
| 52     | 9.6837430 | 9.7413650  | 8      | 9.9423779 | 10.2586350 |
| 53     | 9.6839720 | 9.7416638  | 7      | 9.9423083 | 10.2583362 |
| 54     | 9.6842010 | 9.7419624  | 6      | 9.9422386 | 10.2580376 |
| 55     | 9.6844297 | 9.7422609  | 5      | 9.9421688 | 10.2577391 |
| 56     | 9.6846583 | 9.7425594  | 4      | 9.9420990 | 10.2574406 |
| 57     | 9.6848868 | 9.7428577  | 3      | 9.9420291 | 10.2571423 |
| 58     | 9.6851151 | 9.7431559  | 2      | 9.9419592 | 10.2568441 |
| 59     | 9.6853432 | 9.7434540  | 1      | 9.9418893 | 10.2565460 |
| 60     | 9.6855712 | 9.7437520  | 0      | 9.9418193 | 10.2562480 |



| 29. Grad. |           |            | 60. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.6855712 | 9.7437520  | 60        | 9.9418193 | 10.2562480 |
| 1         | 9.6857991 | 9.7440499  | 59        | 9.9417492 | 10.2559501 |
| 2         | 9.6860267 | 9.7443476  | 58        | 9.9416791 | 10.2556524 |
| 3         | 9.6862542 | 9.7446453  | 57        | 9.9416090 | 10.2553547 |
| 4         | 9.6864816 | 9.7449428  | 56        | 9.9415388 | 10.2550572 |
| 5         | 9.6867088 | 9.7452403  | 55        | 9.9414685 | 10.2547597 |
| 6         | 9.6869359 | 9.7455376  | 54        | 9.9413982 | 10.2544624 |
| 7         | 9.6871628 | 9.7458349  | 53        | 9.9413279 | 10.2541651 |
| 8         | 9.6873895 | 9.7461320  | 52        | 9.9412575 | 10.2538680 |
| 9         | 9.6876161 | 9.7464290  | 51        | 9.9411871 | 10.2535710 |
| 10        | 9.6878425 | 9.7467259  | 50        | 9.9411166 | 10.2532741 |
| 11        | 9.6880688 | 9.7470227  | 49        | 9.9410461 | 10.2529773 |
| 12        | 9.6882949 | 9.7473194  | 48        | 9.9409755 | 10.2526806 |
| 13        | 9.6885209 | 9.7476160  | 47        | 9.9409048 | 10.2523840 |
| 14        | 9.6887467 | 9.7479125  | 46        | 9.9408342 | 10.2520875 |
| 15        | 9.6889723 | 9.7482089  | 45        | 9.9407634 | 10.2517911 |
| 16        | 9.6891978 | 9.7485052  | 44        | 9.9406927 | 10.2514948 |
| 17        | 9.6894232 | 9.7488013  | 43        | 9.9406219 | 10.2511987 |
| 18        | 9.6896484 | 9.7490974  | 42        | 9.9405510 | 10.2509026 |
| 19        | 9.6898734 | 9.7493934  | 41        | 9.9404801 | 10.2506066 |
| 20        | 9.6900983 | 9.7496892  | 40        | 9.9404091 | 10.2503108 |
| 21        | 9.6903231 | 9.7499850  | 39        | 9.9403381 | 10.2500150 |
| 22        | 9.6905476 | 9.7502806  | 38        | 9.9402670 | 10.2497194 |
| 23        | 9.6907721 | 9.7505762  | 37        | 9.9401959 | 10.2494238 |
| 24        | 9.6909964 | 9.7508716  | 36        | 9.9401248 | 10.2491284 |
| 25        | 9.6912205 | 9.7511669  | 35        | 9.9400535 | 10.2488331 |
| 26        | 9.6914445 | 9.7514622  | 34        | 9.9399823 | 10.2485378 |
| 27        | 9.6916683 | 9.7517573  | 33        | 9.9399110 | 10.2482427 |
| 28        | 9.6918919 | 9.7520523  | 32        | 9.9398396 | 10.2479477 |
| 29        | 9.6921155 | 9.7523472  | 31        | 9.9397682 | 10.2476528 |
| 30        | 9.6923388 | 9.7526420  | 30        | 9.9396968 | 10.2473580 |



| Minut. | 29. Grad. |            | Minut. | 60. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.6923388 | 9.7526420  | 30     | 9.9396968 | 10.2473580 |
| 31     | 9.6925620 | 9.7529368  | 29     | 9.9396253 | 10.2470632 |
| 32     | 9.6927851 | 9.7532314  | 28     | 9.9395537 | 10.2467686 |
| 33     | 9.6930080 | 9.7535259  | 27     | 9.9394821 | 10.2464741 |
| 34     | 9.6932308 | 9.7538203  | 26     | 9.9394105 | 10.2461797 |
| 35     | 9.6934534 | 9.7541146  | 25     | 9.9393388 | 10.2458854 |
| 36     | 9.6936758 | 9.7544088  | 24     | 9.9392671 | 10.2455912 |
| 37     | 9.6938981 | 9.7547029  | 23     | 9.9391953 | 10.2452971 |
| 38     | 9.6941203 | 9.7549969  | 22     | 9.9391234 | 10.2450031 |
| 39     | 9.6943423 | 9.7552908  | 21     | 9.9390515 | 10.2447092 |
| 40     | 9.6945642 | 9.7555846  | 20     | 9.9389796 | 10.2444154 |
| 41     | 9.6947859 | 9.7558783  | 19     | 9.9389076 | 10.2441217 |
| 42     | 9.6950074 | 9.7561718  | 18     | 9.9388356 | 10.2438282 |
| 43     | 9.6952288 | 9.7564653  | 17     | 9.9387635 | 10.2435347 |
| 44     | 9.6954501 | 9.7567587  | 16     | 9.9386914 | 10.2432413 |
| 45     | 9.6956712 | 9.7570520  | 15     | 9.9386192 | 10.2429480 |
| 46     | 9.6958922 | 9.7573452  | 14     | 9.9385470 | 10.2426548 |
| 47     | 9.6961130 | 9.7576383  | 13     | 9.9384747 | 10.2423617 |
| 48     | 9.6963336 | 9.7579313  | 12     | 9.9384024 | 10.2420687 |
| 49     | 9.6965541 | 9.7582242  | 11     | 9.9383300 | 10.2417758 |
| 50     | 9.6967745 | 9.7585170  | 10     | 9.9382576 | 10.2414830 |
| 51     | 9.6969947 | 9.7588096  | 9      | 9.9381851 | 10.2411904 |
| 52     | 9.6972148 | 9.7591022  | 8      | 9.9381126 | 10.2408978 |
| 53     | 9.6974347 | 9.7593947  | 7      | 9.9380400 | 10.2406053 |
| 54     | 9.6976545 | 9.7596871  | 6      | 9.9379674 | 10.2403129 |
| 55     | 9.6978741 | 9.7599794  | 5      | 9.9378947 | 10.2400206 |
| 56     | 9.6980936 | 9.7602716  | 4      | 9.9378220 | 10.2397284 |
| 57     | 9.6983129 | 9.7605637  | 3      | 9.9377492 | 10.2394363 |
| 58     | 9.6985321 | 9.7608557  | 2      | 9.9376764 | 10.2391443 |
| 59     | 9.6987511 | 9.7611476  | 1      | 9.9376035 | 10.2388524 |
| 60     | 9.6989700 | 9.7614394  | 0      | 9.9375306 | 10.2385606 |



| 30. Grad. |           |            | 59. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.6989700 | 9.7614394  | 60        | 9.9375306 | 10.2385606 |
| 1         | 9.6991887 | 9.7617311  | 59        | 9.9374577 | 10.2382689 |
| 2         | 9.6994073 | 9.7620227  | 58        | 9.9373847 | 10.2379773 |
| 3         | 9.6996258 | 9.7623142  | 57        | 9.9373116 | 10.2376858 |
| 4         | 9.6998441 | 9.7626056  | 56        | 9.9372385 | 10.2373944 |
| 5         | 9.7000622 | 9.7628969  | 55        | 9.9371653 | 10.2371031 |
| 6         | 9.7002802 | 9.7631881  | 54        | 9.9370921 | 10.2368119 |
| 7         | 9.7004981 | 9.7634792  | 53        | 9.9370189 | 10.2365208 |
| 8         | 9.7007158 | 9.7637702  | 52        | 9.9369456 | 10.2362298 |
| 9         | 9.7009334 | 9.7640612  | 51        | 9.9368722 | 10.2359388 |
| 10        | 9.7011508 | 9.7643520  | 50        | 9.9367988 | 10.2356480 |
| 11        | 9.7013681 | 9.7646427  | 49        | 9.9367254 | 10.2353573 |
| 12        | 9.7015852 | 9.7649334  | 48        | 9.9366519 | 10.2350666 |
| 13        | 9.7018022 | 9.7652239  | 47        | 9.9365783 | 10.2347761 |
| 14        | 9.7020190 | 9.7655143  | 46        | 9.9365047 | 10.2344857 |
| 15        | 9.7022357 | 9.7658047  | 45        | 9.9364311 | 10.2341953 |
| 16        | 9.7024523 | 9.7660949  | 44        | 9.9363574 | 10.2339051 |
| 17        | 9.7026687 | 9.7663851  | 43        | 9.9362836 | 10.2336149 |
| 18        | 9.7028849 | 9.7666751  | 42        | 9.9362098 | 10.2333249 |
| 19        | 9.7031011 | 9.7669651  | 41        | 9.9361360 | 10.2330349 |
| 20        | 9.7033170 | 9.7672550  | 40        | 9.9360621 | 10.2327450 |
| 21        | 9.7035329 | 9.7675448  | 39        | 9.9359881 | 10.2324552 |
| 22        | 9.7037486 | 9.7678344  | 38        | 9.9359141 | 10.2321656 |
| 23        | 9.7039641 | 9.7681240  | 37        | 9.9358401 | 10.2318760 |
| 24        | 9.7041795 | 9.7684135  | 36        | 9.9357660 | 10.2315865 |
| 25        | 9.7043947 | 9.7687029  | 35        | 9.9356918 | 10.2312971 |
| 26        | 9.7046099 | 9.7689922  | 34        | 9.9356177 | 10.2310078 |
| 27        | 9.7048248 | 9.7692814  | 33        | 9.9355434 | 10.2307186 |
| 28        | 9.7050397 | 9.7695705  | 32        | 9.9354691 | 10.2304295 |
| 29        | 9.7052543 | 9.7698596  | 31        | 9.9353948 | 10.2301404 |
| 30        | 9.7054689 | 9.7701485  | 30        | 9.9353204 | 10.2298515 |



| Minut. | 30. Grad. |            | Minut. | 59. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.7054689 | 9.7701485  | 30     | 9.9353204 | 10.2298511 |
| 31     | 9.7056833 | 9.7704373  | 29     | 9.9352459 | 10.229562  |
| 32     | 9.7058975 | 9.7707261  | 28     | 9.9351715 | 10.2292739 |
| 33     | 9.7061116 | 9.7710147  | 27     | 9.9350969 | 10.228985  |
| 34     | 9.7063256 | 9.7713033  | 26     | 9.9350223 | 10.2286967 |
| 35     | 9.7065394 | 9.7715917  | 25     | 9.9349477 | 10.2284083 |
| 36     | 9.7067531 | 9.7718801  | 24     | 9.9348730 | 10.2281199 |
| 37     | 9.7069667 | 9.7721684  | 23     | 9.9347983 | 10.2278316 |
| 38     | 9.7071801 | 9.7724566  | 22     | 9.9347235 | 10.2275434 |
| 39     | 9.7073933 | 9.7727447  | 21     | 9.9346486 | 10.2272553 |
| 40     | 9.7076064 | 9.7730327  | 20     | 9.9345738 | 10.2269673 |
| 41     | 9.7078194 | 9.7733206  | 19     | 9.9344988 | 10.2266794 |
| 42     | 9.7080323 | 9.7736084  | 18     | 9.9344238 | 10.2263916 |
| 43     | 9.7082450 | 9.7738961  | 17     | 9.9343488 | 10.2261039 |
| 44     | 9.7084575 | 9.7741838  | 16     | 9.9342737 | 10.2258162 |
| 45     | 9.7086699 | 9.7744713  | 15     | 9.9341986 | 10.2255287 |
| 46     | 9.7088822 | 9.7747588  | 14     | 9.9341234 | 10.2252412 |
| 47     | 9.7090943 | 9.7750462  | 13     | 9.9340482 | 10.2249538 |
| 48     | 9.7093063 | 9.7753334  | 12     | 9.9339729 | 10.2246666 |
| 49     | 9.7095182 | 9.7756206  | 11     | 9.9338976 | 10.2243794 |
| 50     | 9.7097299 | 9.7759077  | 10     | 9.9338222 | 10.2240923 |
| 51     | 9.7099415 | 9.7761947  | 9      | 9.9337467 | 10.2238053 |
| 52     | 9.7101529 | 9.7764816  | 8      | 9.9336713 | 10.2235184 |
| 53     | 9.7103642 | 9.7767685  | 7      | 9.9335957 | 10.2232315 |
| 54     | 9.7105753 | 9.7770552  | 6      | 9.9335201 | 10.2229448 |
| 55     | 9.7107863 | 9.7773418  | 5      | 9.9334445 | 10.2226582 |
| 56     | 9.7109972 | 9.7776284  | 4      | 9.9333688 | 10.2223716 |
| 57     | 9.7112080 | 9.7779149  | 3      | 9.9332931 | 10.2220851 |
| 58     | 9.7114186 | 9.7782012  | 2      | 9.9332173 | 10.2217988 |
| 59     | 9.7116290 | 9.7784875  | 1      | 9.9331415 | 10.2215125 |
| 60     | 9.7118393 | 9.7787737  | 0      | 9.9330656 | 10.2212263 |



| 31. Grad. |           |            | Minut. | 58. Grad. |      |            |
|-----------|-----------|------------|--------|-----------|------|------------|
| Log.      | Sin.      | Log. Tang. |        | Log.      | Sin. | Log. Tang. |
| 0         | 9.7118393 | 9.7787737  | 60     | 9.9330656 |      | 10.2212263 |
| 1         | 9.7120495 | 9.7790599  | 59     | 9.9329897 |      | 10.2209401 |
| 2         | 9.7122596 | 9.7793459  | 58     | 9.9329137 |      | 10.2206541 |
| 3         | 9.7124695 | 9.7796318  | 57     | 9.9328376 |      | 10.2203682 |
| 4         | 9.7126792 | 9.7799177  | 56     | 9.9327616 |      | 10.2200823 |
| 5         | 9.7128889 | 9.7802034  | 55     | 9.9326854 |      | 10.2197966 |
| 6         | 9.7130983 | 9.7804891  | 54     | 9.9326092 |      | 10.2195109 |
| 7         | 9.7133077 | 9.7807747  | 53     | 9.9325330 |      | 10.2192253 |
| 8         | 9.7135169 | 9.7810602  | 52     | 9.9324567 |      | 10.2189398 |
| 9         | 9.7137260 | 9.7813456  | 51     | 9.9323804 |      | 10.2186544 |
| 10        | 9.7139349 | 9.7816309  | 50     | 9.9323040 |      | 10.2183691 |
| 11        | 9.7141437 | 9.7819162  | 49     | 9.9322276 |      | 10.2180838 |
| 12        | 9.7143524 | 9.7822013  | 48     | 9.9321511 |      | 10.2177987 |
| 13        | 9.7145609 | 9.7824864  | 47     | 9.9320746 |      | 10.2175136 |
| 14        | 9.7147693 | 9.7827713  | 46     | 9.9319980 |      | 10.2172287 |
| 15        | 9.7149776 | 9.7830562  | 45     | 9.9319213 |      | 10.2169438 |
| 16        | 9.7151857 | 9.7833410  | 44     | 9.9318447 |      | 10.2166590 |
| 17        | 9.7153937 | 9.7836258  | 43     | 9.9317679 |      | 10.2163742 |
| 18        | 9.7156015 | 9.7839104  | 42     | 9.9316911 |      | 10.2160896 |
| 19        | 9.7158092 | 9.7841949  | 41     | 9.9316143 |      | 10.2158051 |
| 20        | 9.7160168 | 9.7844794  | 40     | 9.9315374 |      | 10.2155206 |
| 21        | 9.7162243 | 9.7847638  | 39     | 9.9314605 |      | 10.2152362 |
| 22        | 9.7164316 | 9.7850481  | 38     | 9.9313835 |      | 10.2149519 |
| 23        | 9.7166387 | 9.7853323  | 37     | 9.9313065 |      | 10.2146677 |
| 24        | 9.7168458 | 9.7856164  | 36     | 9.9312294 |      | 10.2143836 |
| 25        | 9.7170526 | 9.7859004  | 35     | 9.9311522 |      | 10.2140996 |
| 26        | 9.7172594 | 9.7861844  | 34     | 9.9310750 |      | 10.2138156 |
| 27        | 9.7174660 | 9.7864682  | 33     | 9.9309978 |      | 10.2135318 |
| 28        | 9.7176725 | 9.7867520  | 32     | 9.9309205 |      | 10.2132480 |
| 29        | 9.7178789 | 9.7870357  | 31     | 9.9308432 |      | 10.2129643 |
| 30        | 9.7180851 | 9.7873193  | 30     | 9.9307658 |      | 10.2126807 |

N. 65.

E



| Minut. | 31. Grad. |            | Minut. | 158. Grad. |            |
|--------|-----------|------------|--------|------------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin.  | Log. Tang. |
| 30     | 9.7180851 | 9.7873193  | 30     | 9.9307658  | 10.2126807 |
| 31     | 9.7182912 | 9.7876028  | 29     | 9.9306883  | 10.2123972 |
| 32     | 9.7184971 | 9.7878863  | 28     | 9.9306109  | 10.2121137 |
| 33     | 9.7187030 | 9.7881696  | 27     | 9.9305333  | 10.2118304 |
| 34     | 9.7189086 | 9.7884529  | 26     | 9.9304557  | 10.2115471 |
| 35     | 9.7191142 | 9.7887361  | 25     | 9.9303781  | 10.2112639 |
| 36     | 9.7193196 | 9.7890192  | 24     | 9.9303004  | 10.2109808 |
| 37     | 9.7195249 | 9.7893023  | 23     | 9.9302226  | 10.2106977 |
| 38     | 9.7197300 | 9.7895852  | 22     | 9.9301448  | 10.2104148 |
| 39     | 9.7199350 | 9.7898681  | 21     | 9.9300670  | 10.2101319 |
| 40     | 9.7201399 | 9.7901508  | 20     | 9.9299891  | 10.2098492 |
| 41     | 9.7203447 | 9.7904335  | 19     | 9.9299112  | 10.2095665 |
| 42     | 9.7205493 | 9.7907161  | 18     | 9.9298332  | 10.2092839 |
| 43     | 9.7207538 | 9.7909987  | 17     | 9.9297551  | 10.2090013 |
| 44     | 9.7209581 | 9.7912811  | 16     | 9.9296770  | 10.2087189 |
| 45     | 9.7211623 | 9.7915635  | 15     | 9.9295989  | 10.2084365 |
| 46     | 9.7213664 | 9.7918458  | 14     | 9.9295207  | 10.2081542 |
| 47     | 9.7215704 | 9.7921280  | 13     | 9.9294424  | 10.2078720 |
| 48     | 9.7217742 | 9.7924101  | 12     | 9.9293641  | 10.2075899 |
| 49     | 9.7219779 | 9.7926921  | 11     | 9.9292857  | 10.2073079 |
| 50     | 9.7221814 | 9.7929741  | 10     | 9.9292073  | 10.2070259 |
| 51     | 9.7223848 | 9.7932560  | 9      | 9.9291289  | 10.2067440 |
| 52     | 9.7225881 | 9.7935378  | 8      | 9.9290504  | 10.2064622 |
| 53     | 9.7227913 | 9.7938195  | 7      | 9.9289718  | 10.2061805 |
| 54     | 9.7229943 | 9.7941011  | 6      | 9.9288932  | 10.2058989 |
| 55     | 9.7231972 | 9.7943827  | 5      | 9.9288145  | 10.2056173 |
| 56     | 9.7234000 | 9.7946641  | 4      | 9.9287358  | 10.2053359 |
| 57     | 9.7236026 | 9.7949455  | 3      | 9.9286571  | 10.2050545 |
| 58     | 9.7238051 | 9.7952268  | 2      | 9.9285783  | 10.2047732 |
| 59     | 9.7240075 | 9.7955081  | 1      | 9.9284994  | 10.2044919 |
| 60     | 9.7242097 | 9.7957892  | 0      | 9.9284205  | 10.2042108 |



| Minut. | 32. Grad. |            | Minut. | 57. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.7242097 | 9.7957892  | 60     | 9.9284205 | 10.2042108 |
| 1      | 9.7244118 | 9.7960703  | 59     | 9.9283415 | 10.2039297 |
| 2      | 9.7246138 | 9.7963513  | 58     | 9.9282625 | 10.2036487 |
| 3      | 9.7248156 | 9.7966322  | 57     | 9.9281834 | 10.2033678 |
| 4      | 9.7250174 | 9.7969130  | 56     | 9.9281043 | 10.2030870 |
| 5      | 9.7252189 | 9.7971938  | 55     | 9.9280251 | 10.2028062 |
| 6      | 9.7254204 | 9.7974745  | 54     | 9.9279459 | 10.2025255 |
| 7      | 9.7256217 | 9.7977551  | 53     | 9.9278666 | 10.2022449 |
| 8      | 9.7258229 | 9.7980356  | 52     | 9.9277873 | 10.2019644 |
| 9      | 9.7260240 | 9.7983160  | 51     | 9.9277079 | 10.2016840 |
| 10     | 9.7262249 | 9.7985964  | 50     | 9.9276285 | 10.2014036 |
| 11     | 9.7264257 | 9.7988767  | 49     | 9.9275490 | 10.2011233 |
| 12     | 9.7266264 | 9.7991569  | 48     | 9.9274695 | 10.2008431 |
| 13     | 9.7268269 | 9.7994370  | 47     | 9.9273899 | 10.2005630 |
| 14     | 9.7270273 | 9.7997170  | 46     | 9.9273103 | 10.2002830 |
| 15     | 9.7272276 | 9.7999970  | 45     | 9.9272306 | 10.2000030 |
| 16     | 9.7274278 | 9.8002769  | 44     | 9.9271509 | 10.1997231 |
| 17     | 9.7276278 | 9.8005567  | 43     | 9.9270711 | 10.1994433 |
| 18     | 9.7278277 | 9.8008365  | 42     | 9.9269913 | 10.1991635 |
| 19     | 9.7280275 | 9.8011161  | 41     | 9.9269114 | 10.1988839 |
| 20     | 9.7282271 | 9.8013957  | 40     | 9.9268314 | 10.1986043 |
| 21     | 9.7284267 | 9.8016752  | 39     | 9.9267514 | 10.1983248 |
| 22     | 9.7286260 | 9.8019546  | 38     | 9.9266714 | 10.1980454 |
| 23     | 9.7288253 | 9.8022340  | 37     | 9.9265913 | 10.1977660 |
| 24     | 9.7290244 | 9.8025133  | 36     | 9.9265112 | 10.1974867 |
| 25     | 9.7292234 | 9.8027925  | 35     | 9.9264310 | 10.1972075 |
| 26     | 9.7294223 | 9.8030716  | 34     | 9.9263507 | 10.1969284 |
| 27     | 9.7296211 | 9.8033506  | 33     | 9.9262704 | 10.1966494 |
| 28     | 9.7298197 | 9.8036296  | 32     | 9.9261901 | 10.1963704 |
| 29     | 9.7300182 | 9.8039085  | 31     | 9.9261096 | 10.1960915 |
| 30     | 9.7302165 | 9.8041873  | 30     | 9.9260292 | 10.1958127 |



| 32. Grad. |           |            | 57. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.7302165 | 9.8041873  | 30        | 9.9260292 | 10.1958127 |
| 31        | 9.7304148 | 9.8044661  | 29        | 9.9259487 | 10.1955339 |
| 32        | 9.7306129 | 9.8047447  | 28        | 9.9258681 | 10.1952553 |
| 33        | 9.7308109 | 9.8050233  | 27        | 9.9257875 | 10.1949767 |
| 34        | 9.7310087 | 9.8053019  | 26        | 9.9257069 | 10.1946981 |
| 35        | 9.7312064 | 9.8055803  | 25        | 9.9256261 | 10.1944197 |
| 36        | 9.7314040 | 9.8058587  | 24        | 9.9255454 | 10.1941413 |
| 37        | 9.7316015 | 9.8061370  | 23        | 9.9254646 | 10.1938630 |
| 38        | 9.7317989 | 9.8064152  | 22        | 9.9253837 | 10.1935848 |
| 39        | 9.7319961 | 9.8066933  | 21        | 9.9253028 | 10.1933067 |
| 40        | 9.7321932 | 9.8069714  | 20        | 9.9252218 | 10.1930286 |
| 41        | 9.7323902 | 9.8072494  | 19        | 9.9251408 | 10.1927506 |
| 42        | 9.7325870 | 9.8075273  | 18        | 9.9250597 | 10.1924727 |
| 43        | 9.7327837 | 9.8078052  | 17        | 9.9249786 | 10.1921948 |
| 44        | 9.7329803 | 9.8080829  | 16        | 9.9248974 | 10.1919171 |
| 45        | 9.7331768 | 9.8083606  | 15        | 9.9248161 | 10.1916394 |
| 46        | 9.7333731 | 9.8086383  | 14        | 9.9247349 | 10.1913617 |
| 47        | 9.7335693 | 9.8089158  | 13        | 9.9246535 | 10.1910842 |
| 48        | 9.7337654 | 9.8091933  | 12        | 9.9245721 | 10.1908067 |
| 49        | 9.7339614 | 9.8094707  | 11        | 9.9244907 | 10.1905293 |
| 50        | 9.7341572 | 9.8097480  | 10        | 9.9244092 | 10.1902520 |
| 51        | 9.7343529 | 9.8100253  | 9         | 9.9243277 | 10.1899747 |
| 52        | 9.7345485 | 9.8103025  | 8         | 9.9242461 | 10.1896975 |
| 53        | 9.7347440 | 9.8105796  | 7         | 9.9241644 | 10.1894204 |
| 54        | 9.7349393 | 9.8108566  | 6         | 9.9240827 | 10.1891434 |
| 55        | 9.7351345 | 9.8111336  | 5         | 9.9240010 | 10.1888664 |
| 56        | 9.7353296 | 9.8114105  | 4         | 9.9239191 | 10.1885895 |
| 57        | 9.7355246 | 9.8116873  | 3         | 9.9238373 | 10.1883127 |
| 58        | 9.7357195 | 9.8119641  | 2         | 9.9237554 | 10.1880359 |
| 59        | 9.7359142 | 9.8122408  | 1         | 9.9236734 | 10.1877592 |
| 60        | 9.7361088 | 9.8125174  | 0         | 9.9235914 | 10.1874826 |

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| 33. Grad. |           |            | 56. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.7361088 | 9.8125174  | 60        | 9.9235914 | 10.1874826 |
| 1         | 9.7363032 | 9.8127939  | 59        | 9.9235093 | 10.1872061 |
| 2         | 9.7364976 | 9.8130704  | 58        | 9.9234272 | 10.1869296 |
| 3         | 9.7366918 | 9.8133468  | 57        | 9.9233450 | 10.1866532 |
| 4         | 9.7368859 | 9.8136231  | 56        | 9.9232628 | 10.1863769 |
| 5         | 9.7370799 | 9.8138993  | 55        | 9.9231805 | 10.1861007 |
| 6         | 9.7372737 | 9.8141755  | 54        | 9.9230982 | 10.1858245 |
| 7         | 9.7374675 | 9.8144516  | 53        | 9.9230158 | 10.1855484 |
| 8         | 9.7376611 | 9.8147277  | 52        | 9.9229334 | 10.1852723 |
| 9         | 9.7378546 | 9.8150036  | 51        | 9.9228509 | 10.1849964 |
| 10        | 9.7380479 | 9.8152795  | 50        | 9.9227684 | 10.1847205 |
| 11        | 9.7382412 | 9.8155554  | 49        | 9.9226858 | 10.1844446 |
| 12        | 9.7384343 | 9.8158311  | 48        | 9.9226032 | 10.1841689 |
| 13        | 9.7386273 | 9.8161068  | 47        | 9.9225205 | 10.1838932 |
| 14        | 9.7388201 | 9.8163824  | 46        | 9.9224377 | 10.1836176 |
| 15        | 9.7390129 | 9.8166580  | 45        | 9.9223549 | 10.1833420 |
| 16        | 9.7392055 | 9.8169335  | 44        | 9.9222721 | 10.1830665 |
| 17        | 9.7393980 | 9.8172089  | 43        | 9.9221891 | 10.1827911 |
| 18        | 9.7395904 | 9.8174842  | 42        | 9.9221062 | 10.1825158 |
| 19        | 9.7397827 | 9.8177595  | 41        | 9.9220232 | 10.1822405 |
| 20        | 9.7399748 | 9.8180347  | 40        | 9.9219401 | 10.1819653 |
| 21        | 9.7401668 | 9.8183098  | 39        | 9.9218570 | 10.1816902 |
| 22        | 9.7403587 | 9.8185849  | 38        | 9.9217738 | 10.1814151 |
| 23        | 9.7405505 | 9.8188599  | 37        | 9.9216906 | 10.1811401 |
| 24        | 9.7407421 | 9.8191348  | 36        | 9.9216073 | 10.1808652 |
| 25        | 9.7409337 | 9.8194096  | 35        | 9.9215240 | 10.1805904 |
| 26        | 9.7411251 | 9.8196844  | 34        | 9.9214406 | 10.1803156 |
| 27        | 9.7413164 | 9.8199592  | 33        | 9.9213572 | 10.1800408 |
| 28        | 9.7415075 | 9.8202338  | 32        | 9.9212737 | 10.1797662 |
| 29        | 9.7416986 | 9.8205084  | 31        | 9.9211902 | 10.1794916 |
| 30        | 9.7418895 | 9.8207829  | 30        | 9.9211066 | 10.1792171 |



| 33. Grad. |           |            | 56. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.7418895 | 9.8207829  | 30        | 9.9211066 | 10.1792171 |
| 31        | 9.7420803 | 9.8210574  | 29        | 9.9210229 | 10.1789426 |
| 32        | 9.7422710 | 9.8213317  | 28        | 9.9209393 | 10.1786683 |
| 33        | 9.7424616 | 9.8216060  | 27        | 9.9208555 | 10.1783940 |
| 34        | 9.7426520 | 9.8218803  | 26        | 9.9207717 | 10.1781197 |
| 35        | 9.7428423 | 9.8221545  | 25        | 9.9206878 | 10.1778455 |
| 36        | 9.7430325 | 9.8224286  | 24        | 9.9206039 | 10.1775712 |
| 37        | 9.7432226 | 9.8227026  | 23        | 9.9205200 | 10.1772974 |
| 38        | 9.7434126 | 9.8229766  | 22        | 9.9204360 | 10.1770234 |
| 39        | 9.7436024 | 9.8232505  | 21        | 9.9203519 | 10.1767495 |
| 40        | 9.7437921 | 9.8235244  | 20        | 9.9202678 | 10.1764756 |
| 41        | 9.7439817 | 9.8237981  | 19        | 9.9201836 | 10.1762019 |
| 42        | 9.7441712 | 9.8240719  | 18        | 9.9200994 | 10.1759281 |
| 43        | 9.7443606 | 9.8243455  | 17        | 9.9200151 | 10.1756545 |
| 44        | 9.7445498 | 9.8246191  | 16        | 9.9199308 | 10.1753809 |
| 45        | 9.7447390 | 9.8248926  | 15        | 9.9198464 | 10.1751074 |
| 46        | 9.7449280 | 9.8251660  | 14        | 9.9197619 | 10.1748340 |
| 47        | 9.7451169 | 9.8254394  | 13        | 9.9196775 | 10.1745606 |
| 48        | 9.7453056 | 9.8257127  | 12        | 9.9195929 | 10.1742873 |
| 49        | 9.7454943 | 9.8259860  | 11        | 9.9195083 | 10.1740140 |
| 50        | 9.7456828 | 9.8262592  | 10        | 9.9194237 | 10.1737408 |
| 51        | 9.7458712 | 9.8265323  | 9         | 9.9193390 | 10.1734677 |
| 52        | 9.7460595 | 9.8268053  | 8         | 9.9192542 | 10.1731947 |
| 53        | 9.7462477 | 9.8270783  | 7         | 9.9191694 | 10.1729217 |
| 54        | 9.7464358 | 9.8273513  | 6         | 9.9190845 | 10.1726487 |
| 55        | 9.7466237 | 9.8276241  | 5         | 9.9189996 | 10.1723759 |
| 56        | 9.7468115 | 9.8278969  | 4         | 9.9189146 | 10.1721031 |
| 57        | 9.7469992 | 9.8281696  | 3         | 9.9188296 | 10.1718304 |
| 58        | 9.7471868 | 9.8284423  | 2         | 9.9187445 | 10.1715577 |
| 59        | 9.7473743 | 9.8287149  | 1         | 9.9186594 | 10.1712851 |
| 60        | 9.7475617 | 9.8289874  | 0         | 9.9185742 | 10.1710126 |

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| Minut. | 34. Grad. |            | Minut. | 55. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.7475617 | 9.8289874  | 60     | 9.9185742 | 10.1710126 |
| 1      | 9.7477489 | 9.8292599  | 59     | 9.9184890 | 10.1707401 |
| 2      | 9.7479360 | 9.8295323  | 58     | 9.9184037 | 10.1704677 |
| 3      | 9.7481230 | 9.8298047  | 57     | 9.9183183 | 10.1701953 |
| 4      | 9.7483099 | 9.8300769  | 56     | 9.9182329 | 10.1699231 |
| 5      | 9.7484967 | 9.8303492  | 55     | 9.9181475 | 10.1696508 |
| 6      | 9.7486833 | 9.8306213  | 54     | 9.9180620 | 10.1693787 |
| 7      | 9.7488698 | 9.8308934  | 53     | 9.9179764 | 10.1691066 |
| 8      | 9.7490562 | 9.8311654  | 52     | 9.9178908 | 10.1688346 |
| 9      | 9.7492425 | 9.8314374  | 51     | 9.9178051 | 10.1685626 |
| 10     | 9.7494287 | 9.8317093  | 50     | 9.9177194 | 10.1682907 |
| 11     | 9.7496148 | 9.8319811  | 49     | 9.9176336 | 10.1680189 |
| 12     | 9.7498007 | 9.8322529  | 48     | 9.9175478 | 10.1677471 |
| 13     | 9.7499866 | 9.8325246  | 47     | 9.9174619 | 10.1674754 |
| 14     | 9.7501723 | 9.8327963  | 46     | 9.9173760 | 10.1672037 |
| 15     | 9.7503579 | 9.8330679  | 45     | 9.9172900 | 10.1669321 |
| 16     | 9.7505434 | 9.8333394  | 44     | 9.9172040 | 10.1666606 |
| 17     | 9.7507287 | 9.8336109  | 43     | 9.9171179 | 10.1663891 |
| 18     | 9.7509140 | 9.8338823  | 42     | 9.9170317 | 10.1661177 |
| 19     | 9.7510991 | 9.8341536  | 41     | 9.9169455 | 10.1658464 |
| 20     | 9.7512842 | 9.8344249  | 40     | 9.9168593 | 10.1655751 |
| 21     | 9.7514691 | 9.8346961  | 39     | 9.9167730 | 10.1653039 |
| 22     | 9.7516538 | 9.8349673  | 38     | 9.9166866 | 10.1650327 |
| 23     | 9.7518385 | 9.8352384  | 37     | 9.9166002 | 10.1647616 |
| 24     | 9.7520231 | 9.8355094  | 36     | 9.9165137 | 10.1644906 |
| 25     | 9.7522075 | 9.8357804  | 35     | 9.9164272 | 10.1642196 |
| 26     | 9.7523919 | 9.8360513  | 34     | 9.9163406 | 10.1639487 |
| 27     | 9.7525761 | 9.8363221  | 33     | 9.9162539 | 10.1636779 |
| 28     | 9.7527602 | 9.8365929  | 32     | 9.9161673 | 10.1634071 |
| 29     | 9.7529442 | 9.8368636  | 31     | 9.9160805 | 10.1631364 |
| 30     | 9.7531280 | 9.8371343  | 30     | 9.9159937 | 10.1628657 |



| 34. Grad. |           |            | 55. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.7531280 | 9.8371343  | 30        | 9.9159937 | 10.1628657 |
| 31        | 9.7533118 | 9.8374049  | 29        | 9.9159069 | 10.1625951 |
| 32        | 9.7534954 | 9.8376755  | 28        | 9.9158200 | 10.1623245 |
| 33        | 9.7536790 | 9.8379460  | 27        | 9.9157330 | 10.1620540 |
| 34        | 9.7538624 | 9.8382164  | 26        | 9.9156460 | 10.1617836 |
| 35        | 9.7540457 | 9.8384867  | 25        | 9.9155589 | 10.1615133 |
| 36        | 9.7542288 | 9.8387571  | 24        | 9.9154718 | 10.1612429 |
| 37        | 9.7544119 | 9.8390273  | 23        | 9.9153846 | 10.1609727 |
| 38        | 9.7545949 | 9.8392975  | 22        | 9.9152974 | 10.1607025 |
| 39        | 9.7547777 | 9.8395676  | 21        | 9.9152101 | 10.1604324 |
| 40        | 9.7549604 | 9.8398377  | 20        | 9.9151228 | 10.1601623 |
| 41        | 9.7551431 | 9.8401077  | 19        | 9.9150354 | 10.1598923 |
| 42        | 9.7553256 | 9.8403776  | 18        | 9.9149479 | 10.1596224 |
| 43        | 9.7555080 | 9.8406475  | 17        | 9.9148604 | 10.1593525 |
| 44        | 9.7556902 | 9.8409174  | 16        | 9.9147729 | 10.1590826 |
| 45        | 9.7558724 | 9.8411871  | 15        | 9.9146852 | 10.1588129 |
| 46        | 9.7560544 | 9.8414569  | 14        | 9.9145976 | 10.1585431 |
| 47        | 9.7562364 | 9.8417265  | 13        | 9.9145099 | 10.1582735 |
| 48        | 9.7564182 | 9.8419961  | 12        | 9.9144221 | 10.1580039 |
| 49        | 9.7565999 | 9.8422657  | 11        | 9.9143342 | 10.1577343 |
| 50        | 9.7567815 | 9.8425351  | 10        | 9.9142464 | 10.1574649 |
| 51        | 9.7569630 | 9.8428046  | 9         | 9.9141584 | 10.1571954 |
| 52        | 9.7571444 | 9.8430739  | 8         | 9.9140704 | 10.1569261 |
| 53        | 9.7573256 | 9.8433432  | 7         | 9.9139824 | 10.1566568 |
| 54        | 9.7575068 | 9.8436125  | 6         | 9.9138943 | 10.1563875 |
| 55        | 9.7576878 | 9.8438817  | 5         | 9.9138061 | 10.1561183 |
| 56        | 9.7578687 | 9.8441508  | 4         | 9.9137179 | 10.1558492 |
| 57        | 9.7580495 | 9.8444199  | 3         | 9.9136296 | 10.1555801 |
| 58        | 9.7582302 | 9.8446889  | 2         | 9.9135413 | 10.1553111 |
| 59        | 9.7584108 | 9.8449579  | 1         | 9.9134530 | 10.1550421 |
| 60        | 9.7585913 | 9.8452268  | 0         | 9.9133645 | 10.1547732 |

N. 72.



| 35. Grad. |           |            | 54. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.7585913 | 9.8452268  | 60        | 9.9133645 | 10.1547732 |
| 1         | 9.7587717 | 9.8454956  | 59        | 9.9132760 | 10.1545044 |
| 2         | 9.7589519 | 9.8457644  | 58        | 9.9131875 | 10.1542356 |
| 3         | 9.7591321 | 9.8460332  | 57        | 9.9130989 | 10.1539668 |
| 4         | 9.7593121 | 9.8463018  | 56        | 9.9130102 | 10.1536982 |
| 5         | 9.7594920 | 9.8465705  | 55        | 9.9129215 | 10.1534295 |
| 6         | 9.7596718 | 9.8468390  | 54        | 9.9128328 | 10.1531610 |
| 7         | 9.7598515 | 9.8471075  | 53        | 9.9127440 | 10.1528925 |
| 8         | 9.7600311 | 9.8473760  | 52        | 9.9126552 | 10.1526240 |
| 9         | 9.7602106 | 9.8476444  | 51        | 9.9125662 | 10.1523556 |
| 10        | 9.7603899 | 9.8479127  | 50        | 9.9124772 | 10.1520873 |
| 11        | 9.7605692 | 9.8481810  | 49        | 9.9123882 | 10.1518190 |
| 12        | 9.7607483 | 9.8484492  | 48        | 9.9122991 | 10.1515508 |
| 13        | 9.7609274 | 9.8487174  | 47        | 9.9122099 | 10.1512826 |
| 14        | 9.7611063 | 9.8489855  | 46        | 9.9121207 | 10.1510145 |
| 15        | 9.7612851 | 9.8492536  | 45        | 9.9120315 | 10.1507464 |
| 16        | 9.7614638 | 9.8495216  | 44        | 9.9119422 | 10.1504784 |
| 17        | 9.7616424 | 9.8497896  | 43        | 9.9118528 | 10.1502104 |
| 18        | 9.7618208 | 9.8500575  | 42        | 9.9117634 | 10.1499425 |
| 19        | 9.7619992 | 9.8503253  | 41        | 9.9116739 | 10.1496747 |
| 20        | 9.7621775 | 9.8505931  | 40        | 9.9115844 | 10.1494069 |
| 21        | 9.7623556 | 9.8508608  | 39        | 9.9114948 | 10.1491392 |
| 22        | 9.7625337 | 9.8511285  | 38        | 9.9114051 | 10.1488715 |
| 23        | 9.7627116 | 9.8513961  | 37        | 9.9113155 | 10.1486039 |
| 24        | 9.7628894 | 9.8516637  | 36        | 9.9112257 | 10.1483363 |
| 25        | 9.7630671 | 9.8519312  | 35        | 9.9111359 | 10.1480688 |
| 26        | 9.7632447 | 9.8521987  | 34        | 9.9110460 | 10.1478013 |
| 27        | 9.7634222 | 9.8524661  | 33        | 9.9109561 | 10.1475339 |
| 28        | 9.7635996 | 9.8527335  | 32        | 9.9108661 | 10.1472665 |
| 29        | 9.7637769 | 9.8530008  | 31        | 9.9107761 | 10.1469992 |
| 30        | 9.7639540 | 9.8532680  | 30        | 9.9106860 | 10.1467320 |



| Minur. | 35. Grad. |            | Minur. | 54. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.7639540 | 9.8532680  | 30     | 9.9106860 | 10.1467320 |
| 31     | 9.7641311 | 9.8535352  | 29     | 9.9105959 | 10.1464648 |
| 32     | 9.7643080 | 9.8538023  | 28     | 9.9105057 | 10.1461977 |
| 33     | 9.7644849 | 9.8540694  | 27     | 9.9104155 | 10.1459306 |
| 34     | 9.7646616 | 9.8543365  | 26     | 9.9103251 | 10.1456635 |
| 35     | 9.7648382 | 9.8546034  | 25     | 9.9102348 | 10.1453966 |
| 36     | 9.7650147 | 9.8548704  | 24     | 9.9101444 | 10.1451296 |
| 37     | 9.7651911 | 9.8551372  | 23     | 9.9100539 | 10.1448628 |
| 38     | 9.7653674 | 9.8554041  | 22     | 9.9099634 | 10.1445959 |
| 39     | 9.7655436 | 9.8556708  | 21     | 9.9098728 | 10.1443292 |
| 40     | 9.7657197 | 9.8559376  | 20     | 9.9097821 | 10.1440624 |
| 41     | 9.7658957 | 9.8562042  | 19     | 9.9096915 | 10.1437958 |
| 42     | 9.7660715 | 9.8564708  | 18     | 9.9096007 | 10.1435292 |
| 43     | 9.7662473 | 9.8567374  | 17     | 9.9095099 | 10.1432626 |
| 44     | 9.7664229 | 9.8570039  | 16     | 9.9094190 | 10.1429961 |
| 45     | 9.7665985 | 9.8572704  | 15     | 9.9093281 | 10.1427296 |
| 46     | 9.7667739 | 9.8575368  | 14     | 9.9092371 | 10.1424632 |
| 47     | 9.7669492 | 9.8578031  | 13     | 9.9091461 | 10.1421969 |
| 48     | 9.7671244 | 9.8580694  | 12     | 9.9090550 | 10.1419306 |
| 49     | 9.7672996 | 9.8583357  | 11     | 9.9089639 | 10.1416643 |
| 50     | 9.7674746 | 9.8586019  | 10     | 9.9088727 | 10.1413981 |
| 51     | 9.7676494 | 9.8588680  | 9      | 9.9087814 | 10.1411320 |
| 52     | 9.7678242 | 9.8591341  | 8      | 9.9086901 | 10.1408659 |
| 53     | 9.7679989 | 9.8594002  | 7      | 9.9085988 | 10.1405998 |
| 54     | 9.7681735 | 9.8596661  | 6      | 9.9085073 | 10.1403339 |
| 55     | 9.7683480 | 9.8599321  | 5      | 9.9084159 | 10.1400679 |
| 56     | 9.7685223 | 9.8601980  | 4      | 9.9083243 | 10.1398020 |
| 57     | 9.7686966 | 9.8604638  | 3      | 9.9082327 | 10.1395362 |
| 58     | 9.7688707 | 9.8607296  | 2      | 9.9081411 | 10.1392704 |
| 59     | 9.7690448 | 9.8609954  | 1      | 9.9080494 | 10.1390046 |
| 60     | 9.7692187 | 9.8612610  | 0      | 9.9079576 | 10.1387390 |



| Minut. | 36. Grad. |            | Minut. | 53. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.7692187 | 9.8612610  | 60     | 9.9079576 | 10.1387390 |
| 1      | 9.7693925 | 9.8615267  | 59     | 9.9078658 | 10.1384733 |
| 2      | 9.7695662 | 9.8617923  | 58     | 9.9077740 | 10.1382077 |
| 3      | 9.7697398 | 9.8620578  | 57     | 9.9076820 | 10.1379422 |
| 4      | 9.7699134 | 9.8623233  | 56     | 9.9075901 | 10.1376767 |
| 5      | 9.7700868 | 9.8625887  | 55     | 9.9074980 | 10.1374113 |
| 6      | 9.7702601 | 9.8628541  | 54     | 9.9074059 | 10.1371459 |
| 7      | 9.7704332 | 9.8631195  | 53     | 9.9073138 | 10.1368805 |
| 8      | 9.7706063 | 9.8633848  | 52     | 9.9072216 | 10.1366152 |
| 9      | 9.7707793 | 9.8636500  | 51     | 9.9071293 | 10.1363500 |
| 10     | 9.7709522 | 9.8639152  | 50     | 9.9070370 | 10.1360848 |
| 11     | 9.7711249 | 9.8641803  | 49     | 9.9069446 | 10.1358197 |
| 12     | 9.7712976 | 9.8644454  | 48     | 9.9068522 | 10.1355546 |
| 13     | 9.7714702 | 9.8647105  | 47     | 9.9067597 | 10.1352895 |
| 14     | 9.7716426 | 9.8649755  | 46     | 9.9066671 | 10.1350245 |
| 15     | 9.7718150 | 9.8652404  | 45     | 9.9065745 | 10.1347596 |
| 16     | 9.7719872 | 9.8655053  | 44     | 9.9064819 | 10.1344947 |
| 17     | 9.7721593 | 9.8657702  | 43     | 9.9063892 | 10.1342298 |
| 18     | 9.7723314 | 9.8660350  | 42     | 9.9062964 | 10.1339650 |
| 19     | 9.7725033 | 9.8662997  | 41     | 9.9062036 | 10.1337003 |
| 20     | 9.7726751 | 9.8665644  | 40     | 9.9061107 | 10.1334356 |
| 21     | 9.7728468 | 9.8668291  | 39     | 9.9060177 | 10.1331709 |
| 22     | 9.7730185 | 9.8670937  | 38     | 9.9059247 | 10.1329063 |
| 23     | 9.7731900 | 9.8673583  | 37     | 9.9058317 | 10.1326417 |
| 24     | 9.7733614 | 9.8676228  | 36     | 9.9057386 | 10.1323772 |
| 25     | 9.7735327 | 9.8678873  | 35     | 9.9056454 | 10.1321127 |
| 26     | 9.7737039 | 9.8681517  | 34     | 9.9055522 | 10.1318483 |
| 27     | 9.7738749 | 9.8684160  | 33     | 9.9054589 | 10.1315840 |
| 28     | 9.7740459 | 9.8686804  | 32     | 9.9053656 | 10.1313196 |
| 29     | 9.7742168 | 9.8689446  | 31     | 9.9052722 | 10.1310554 |
| 30     | 9.7743876 | 9.8692089  | 30     | 9.9051787 | 10.1307911 |

Num. 75.



| 36. Grad. |           |            | 53. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.7743876 | 9.8692089  | 30        | 9.9051787 | 10.1307911 |
| 31        | 9.7745583 | 9.8694731  | 29        | 9.9050852 | 10.1305269 |
| 32        | 9.7747288 | 9.8697372  | 28        | 9.9049916 | 10.1302628 |
| 33        | 9.7748993 | 9.8700013  | 27        | 9.9048980 | 10.1299987 |
| 34        | 9.7750697 | 9.8702653  | 26        | 9.9048043 | 10.1297347 |
| 35        | 9.7752399 | 9.8705293  | 25        | 9.9047106 | 10.1294707 |
| 36        | 9.7754101 | 9.8707933  | 24        | 9.9046168 | 10.1292067 |
| 37        | 9.7755801 | 9.8710572  | 23        | 9.9045230 | 10.1289428 |
| 38        | 9.7757501 | 9.8713210  | 22        | 9.9044291 | 10.1286790 |
| 39        | 9.7759199 | 9.8715848  | 21        | 9.9043351 | 10.1284152 |
| 40        | 9.7760897 | 9.8718486  | 20        | 9.9042411 | 10.1281514 |
| 41        | 9.7762593 | 9.8721123  | 19        | 9.9041470 | 10.1278877 |
| 42        | 9.7764289 | 9.8723760  | 18        | 9.9040529 | 10.1276240 |
| 43        | 9.7765983 | 9.8726396  | 17        | 9.9039587 | 10.1273604 |
| 44        | 9.7767676 | 9.8729032  | 16        | 9.9038644 | 10.1270968 |
| 45        | 9.7769369 | 9.8731668  | 15        | 9.9037701 | 10.1268332 |
| 46        | 9.7771060 | 9.8734302  | 14        | 9.9036757 | 10.1265698 |
| 47        | 9.7772750 | 9.8736937  | 13        | 9.9035813 | 10.1263063 |
| 48        | 9.7774439 | 9.8739571  | 12        | 9.9034868 | 10.1260429 |
| 49        | 9.7776128 | 9.8742204  | 11        | 9.9033923 | 10.1257796 |
| 50        | 9.7777815 | 9.8744838  | 10        | 9.9032977 | 10.1255162 |
| 51        | 8.7779501 | 9.8747470  | 9         | 9.9032031 | 10.1252530 |
| 52        | 9.7781186 | 9.8750102  | 8         | 9.9031084 | 10.1249898 |
| 53        | 9.7782870 | 9.8752734  | 7         | 9.9030136 | 10.1247266 |
| 54        | 9.7784553 | 9.8755365  | 6         | 9.9029188 | 10.1244635 |
| 55        | 9.7786235 | 9.8757996  | 5         | 9.9028239 | 10.1242004 |
| 56        | 9.7787916 | 9.8760627  | 4         | 9.9027289 | 10.1239373 |
| 57        | 9.7789596 | 9.8763257  | 3         | 9.9026339 | 10.1236743 |
| 58        | 9.7791275 | 9.8765886  | 2         | 9.9025389 | 10.1234114 |
| 59        | 9.7792953 | 9.8768515  | 1         | 9.9024438 | 10.1231485 |
| 60        | 9.7794630 | 9.8771144  | 0         | 9.9023486 | 10.1228856 |



| 37. Grad. |           |            | 52. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.7794630 | 9.8771144  | 60        | 9.9023486 | 10.1228856 |
| 1         | 9.7796306 | 9.8773772  | 59        | 9.9022534 | 10.1226228 |
| 2         | 9.7797981 | 9.8776400  | 58        | 9.9021581 | 10.1223600 |
| 3         | 9.7799655 | 9.8779027  | 57        | 9.9020628 | 10.1220973 |
| 4         | 9.7801328 | 9.8781654  | 56        | 9.9019674 | 10.1218346 |
| 5         | 9.7803000 | 9.8784281  | 55        | 9.9018719 | 10.1215719 |
| 6         | 9.7804671 | 9.8786907  | 54        | 9.9017764 | 10.1213093 |
| 7         | 9.7806341 | 9.8789533  | 53        | 9.9016808 | 10.1210467 |
| 8         | 9.7808010 | 9.8792158  | 52        | 9.9015852 | 10.1207842 |
| 9         | 9.7809677 | 9.8794782  | 51        | 9.9014895 | 10.1205218 |
| 10        | 9.7811344 | 9.8797407  | 50        | 9.9013938 | 10.1202593 |
| 11        | 9.7813010 | 9.8800031  | 49        | 9.9012980 | 10.1199969 |
| 12        | 9.7814675 | 9.8802654  | 48        | 9.9012021 | 10.1197346 |
| 13        | 9.7816339 | 9.8805277  | 47        | 9.9011062 | 10.1194723 |
| 14        | 9.7818002 | 9.8807990  | 46        | 9.9010102 | 10.1192100 |
| 15        | 9.7819664 | 9.8810522  | 45        | 9.9009142 | 10.1189478 |
| 16        | 9.7821324 | 9.8813144  | 44        | 9.9008181 | 10.1186856 |
| 17        | 9.7822984 | 9.8815765  | 43        | 9.9007219 | 10.1184235 |
| 18        | 9.7824643 | 9.8818386  | 42        | 9.9006257 | 10.1181614 |
| 19        | 9.7826301 | 9.8821007  | 41        | 9.9005294 | 10.1178993 |
| 20        | 9.7827958 | 9.8823627  | 40        | 9.9004331 | 10.1176373 |
| 21        | 9.7829614 | 9.8826246  | 39        | 9.9003367 | 10.1173754 |
| 22        | 9.7831268 | 9.8828866  | 38        | 9.9002403 | 10.1171134 |
| 23        | 9.7832922 | 9.8831484  | 37        | 9.9001438 | 10.1168516 |
| 24        | 9.7834575 | 9.8834103  | 36        | 9.9000472 | 10.1165897 |
| 25        | 9.7836227 | 9.8836721  | 35        | 9.8999506 | 10.1163279 |
| 26        | 9.7837878 | 9.8839338  | 34        | 9.8998539 | 10.1160662 |
| 27        | 9.7839528 | 9.8841956  | 33        | 9.8997572 | 10.1158044 |
| 28        | 9.7841177 | 9.8844572  | 32        | 9.8996604 | 10.1155428 |
| 29        | 9.7842824 | 9.8847189  | 31        | 9.8995636 | 10.1152811 |
| 30        | 9.7844471 | 9.8849805  | 30        | 9.8994667 | 10.1150195 |

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| Minut. | 37. Grad. |            | Minut. | 52. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.7844471 | 9.8849805  | 30     | 9.8994667 | 10.1150195 |
| 31     | 9.7846117 | 9.8852420  | 29     | 9.8993697 | 10.1147580 |
| 32     | 9.7847762 | 9.8855035  | 28     | 9.8992727 | 10.1144965 |
| 33     | 9.7849406 | 9.8857650  | 27     | 9.8991756 | 10.1142350 |
| 34     | 9.7851049 | 9.8860264  | 26     | 9.8990784 | 10.1139736 |
| 35     | 9.7852691 | 9.8862878  | 25     | 9.8989812 | 10.1137122 |
| 36     | 9.7854332 | 9.8865492  | 24     | 9.8988840 | 10.1134508 |
| 37     | 9.7855972 | 9.8868105  | 23     | 9.8987867 | 10.1131895 |
| 38     | 9.7857611 | 9.8870718  | 22     | 9.8986893 | 10.1129282 |
| 39     | 9.7859249 | 9.8873330  | 21     | 9.8985919 | 10.1126670 |
| 40     | 9.7860886 | 9.8875942  | 20     | 9.8984944 | 10.1124058 |
| 41     | 9.7862522 | 9.8878554  | 19     | 9.8983968 | 10.1121446 |
| 42     | 9.7864157 | 9.8881165  | 18     | 9.8982992 | 10.1118835 |
| 43     | 9.7865791 | 9.8883775  | 17     | 9.8982015 | 10.1116225 |
| 44     | 9.7867424 | 9.8886386  | 16     | 9.8981038 | 10.1113614 |
| 45     | 9.7869056 | 9.8888996  | 15     | 9.8980060 | 10.1111004 |
| 46     | 9.7870687 | 9.8891605  | 14     | 9.8979082 | 10.1108395 |
| 47     | 9.7872317 | 9.8894214  | 13     | 9.8978103 | 10.1105786 |
| 48     | 9.7873946 | 9.8896823  | 12     | 9.8977123 | 10.1103177 |
| 49     | 9.7875574 | 9.8899432  | 11     | 9.8976143 | 10.1100568 |
| 50     | 9.7877202 | 9.8902040  | 10     | 9.8975162 | 10.1097960 |
| 51     | 9.7878828 | 9.8904647  | 9      | 9.8974181 | 10.1095353 |
| 52     | 9.7880453 | 9.8907254  | 8      | 9.8973199 | 10.1092746 |
| 53     | 9.7882077 | 9.8909861  | 7      | 9.8972216 | 10.1090139 |
| 54     | 9.7883701 | 9.8912468  | 6      | 9.8971233 | 10.1087532 |
| 55     | 9.7885323 | 9.8915074  | 5      | 9.8970249 | 10.1084926 |
| 56     | 9.7886944 | 9.8917679  | 4      | 9.8969265 | 10.1082321 |
| 57     | 9.7888565 | 9.8920285  | 3      | 9.8968280 | 10.1079715 |
| 58     | 9.7890184 | 9.8922890  | 2      | 9.8967294 | 10.1077110 |
| 59     | 9.7891802 | 9.8925494  | 1      | 9.8966308 | 10.1074506 |
| 60     | 9.7893420 | 9.8928098  | 0      | 9.8965321 | 10.1071902 |



| Minut. | 38. Grad. |            | Minut. | 51. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.7893420 | 9.8928098  | 60     | 9.8965321 | 10.1071902 |
| 1      | 9.7895036 | 9.8930702  | 59     | 9.8964334 | 10.1069298 |
| 2      | 9.7896652 | 9.8933306  | 58     | 9.8963346 | 10.1066694 |
| 3      | 9.7898266 | 9.8935909  | 57     | 9.8962358 | 10.1064091 |
| 4      | 9.7899880 | 9.8938511  | 56     | 9.8961369 | 10.1061489 |
| 5      | 9.7901493 | 9.8941114  | 55     | 9.8960379 | 10.1058886 |
| 6      | 9.7903104 | 9.8943715  | 54     | 9.8959389 | 10.1056285 |
| 7      | 9.7904715 | 9.8946317  | 53     | 9.8958398 | 10.1053683 |
| 8      | 9.7906325 | 9.8948918  | 52     | 9.8957406 | 10.1051082 |
| 9      | 9.7907933 | 9.8951519  | 51     | 9.8956414 | 10.1048481 |
| 10     | 9.7909541 | 9.8954119  | 50     | 9.8955422 | 10.1045881 |
| 11     | 9.7911148 | 9.8956719  | 49     | 9.8954429 | 10.1043281 |
| 12     | 9.7912754 | 9.8959319  | 48     | 9.8953435 | 10.1040681 |
| 13     | 9.7914359 | 9.8961918  | 47     | 9.8952440 | 10.1038082 |
| 14     | 9.7915963 | 9.8964517  | 46     | 9.8951445 | 10.1035483 |
| 15     | 9.7917566 | 9.8967116  | 45     | 9.8950450 | 10.1032884 |
| 16     | 9.7919168 | 9.8969714  | 44     | 9.8949453 | 10.1030286 |
| 17     | 9.7920769 | 9.8972312  | 43     | 9.8948457 | 10.1027688 |
| 18     | 9.7922369 | 9.8974910  | 42     | 9.8947459 | 10.1025090 |
| 19     | 9.7923968 | 9.8977507  | 41     | 9.8946461 | 10.1022493 |
| 20     | 9.7925566 | 9.8980104  | 40     | 9.8945463 | 10.1019896 |
| 21     | 9.7927163 | 9.8982700  | 39     | 9.8944463 | 10.1017300 |
| 22     | 9.7928760 | 9.8985296  | 38     | 9.8943464 | 10.1014704 |
| 23     | 9.7930355 | 9.8987892  | 37     | 9.8942463 | 10.1012108 |
| 24     | 9.7931949 | 9.8990487  | 36     | 9.8941462 | 10.1009513 |
| 25     | 9.7933543 | 9.8993082  | 35     | 9.8940461 | 10.1006918 |
| 26     | 9.7935135 | 9.8995677  | 34     | 9.8939458 | 10.1004323 |
| 27     | 9.7936727 | 9.8998271  | 33     | 9.8938456 | 10.1001729 |
| 28     | 9.7938317 | 9.9000865  | 32     | 9.8937452 | 10.0999135 |
| 29     | 9.7939907 | 9.9003459  | 31     | 9.8936448 | 10.0996541 |
| 30     | 9.7941496 | 9.9006052  | 30     | 9.8935444 | 10.0993948 |



| Minut. | 38. Grad. |            | Minut. | 51. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.7941496 | 9.9006052  | 30     | 9.8935444 | 10.0993948 |
| 31     | 9.7943083 | 9.9008645  | 29     | 9.8934439 | 10.0991355 |
| 32     | 9.7944670 | 9.9011237  | 28     | 9.8933433 | 10.0988763 |
| 33     | 9.7946256 | 9.9013830  | 27     | 9.8932426 | 10.0986170 |
| 34     | 9.7947841 | 9.9016422  | 26     | 9.8931419 | 10.0983578 |
| 35     | 9.7949425 | 9.9019013  | 25     | 9.8930412 | 10.0980987 |
| 36     | 9.7951008 | 9.9021604  | 24     | 9.8929404 | 10.0978396 |
| 37     | 9.7952590 | 9.9024195  | 23     | 9.8928395 | 10.0975805 |
| 38     | 9.7954171 | 9.9026786  | 22     | 9.8927385 | 10.0973214 |
| 39     | 9.7955751 | 9.9029376  | 21     | 9.8926375 | 10.0970624 |
| 40     | 9.7957330 | 9.9031966  | 20     | 9.8925365 | 10.0968034 |
| 41     | 9.7958909 | 9.9034555  | 19     | 9.8924354 | 10.0965445 |
| 42     | 9.7960486 | 9.9037144  | 18     | 9.8923342 | 10.0962856 |
| 43     | 9.7962062 | 9.9039733  | 17     | 9.8922329 | 10.0960267 |
| 44     | 9.7963638 | 9.9042321  | 16     | 9.8921316 | 10.0957679 |
| 45     | 9.7965212 | 9.9044910  | 15     | 9.8920303 | 10.0955090 |
| 46     | 9.7966786 | 9.9047497  | 14     | 9.8919289 | 10.0952503 |
| 47     | 9.7968359 | 9.9050085  | 13     | 9.8918274 | 10.0949915 |
| 48     | 9.7969930 | 9.9052672  | 12     | 9.8917258 | 10.0947328 |
| 49     | 9.7971501 | 9.9055259  | 11     | 9.8916242 | 10.0944741 |
| 50     | 9.7973071 | 9.9057845  | 10     | 9.8915226 | 10.0942155 |
| 51     | 9.7974640 | 9.9060431  | 9      | 9.8914208 | 10.0939569 |
| 52     | 9.7976208 | 9.9063017  | 8      | 9.8913191 | 10.0936983 |
| 53     | 9.7977775 | 9.9065603  | 7      | 9.8912172 | 10.0934397 |
| 54     | 9.7979341 | 9.9068188  | 6      | 9.8911153 | 10.0931812 |
| 55     | 9.7980906 | 9.9070773  | 5      | 9.8910133 | 10.0929227 |
| 56     | 9.7982470 | 9.9073357  | 4      | 9.8909113 | 10.0926643 |
| 57     | 9.7984034 | 9.9075941  | 3      | 9.8908092 | 10.0924059 |
| 58     | 9.7985596 | 9.9078525  | 2      | 9.8907071 | 10.0921475 |
| 59     | 9.7987158 | 9.9081109  | 1      | 9.8906049 | 10.0918891 |
| 60     | 9.7988718 | 9.9083692  | 0      | 9.8905026 | 10.0916308 |







| Minut. | 39. Grad. |            | Minut. | 50. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.8035105 | 9.9161045  | 30     | 9.8874061 | 10.0838955 |
| 31     | 9.8036637 | 9.9163618  | 29     | 9.8873019 | 10.0836382 |
| 32     | 9.8038168 | 9.9166192  | 28     | 9.8871977 | 10.0833808 |
| 33     | 9.8039699 | 9.9168765  | 27     | 9.8870934 | 10.0831235 |
| 34     | 9.8041228 | 9.9171338  | 26     | 9.8869890 | 10.0828662 |
| 35     | 9.8042757 | 9.9173911  | 25     | 9.8868846 | 10.0826089 |
| 36     | 9.8044284 | 9.9176483  | 24     | 9.8867801 | 10.0823517 |
| 37     | 9.8045811 | 9.9179055  | 23     | 9.8866756 | 10.0820945 |
| 38     | 9.8047336 | 9.9181627  | 22     | 9.8865710 | 10.0818373 |
| 39     | 9.8048861 | 9.9184198  | 21     | 9.8864663 | 10.0815802 |
| 40     | 9.8050385 | 9.9186769  | 20     | 9.8863616 | 10.0813231 |
| 41     | 9.8051908 | 9.9189340  | 19     | 9.8862568 | 10.0810660 |
| 42     | 9.8053430 | 9.9191911  | 18     | 9.8861519 | 10.0808089 |
| 43     | 9.8054951 | 9.9194481  | 17     | 9.8860470 | 10.0805519 |
| 44     | 9.8056472 | 9.9197051  | 16     | 9.8859420 | 10.0802949 |
| 45     | 9.8057991 | 9.9199621  | 15     | 9.8858370 | 10.0800379 |
| 46     | 9.8059510 | 9.9202191  | 14     | 9.8857319 | 10.0797809 |
| 47     | 9.8061027 | 9.9204760  | 13     | 9.8856267 | 10.0795240 |
| 48     | 9.8062544 | 9.9207329  | 12     | 9.8855215 | 10.0792671 |
| 49     | 9.8064060 | 9.9209898  | 11     | 9.8854162 | 10.0790102 |
| 50     | 9.8065575 | 9.9212466  | 10     | 9.8853109 | 10.0787534 |
| 51     | 9.8067089 | 9.9215034  | 9      | 9.8852055 | 10.0784966 |
| 52     | 9.8068602 | 9.9217602  | 8      | 9.8851000 | 10.0782398 |
| 53     | 9.8070114 | 9.9220170  | 7      | 9.8849945 | 10.0779830 |
| 54     | 9.8071626 | 9.9222737  | 6      | 9.8848889 | 10.0777263 |
| 55     | 9.8073136 | 9.9225304  | 5      | 9.8847832 | 10.0774696 |
| 56     | 9.8074646 | 9.9227871  | 4      | 9.8846775 | 10.0772129 |
| 57     | 9.8076154 | 9.9230437  | 3      | 9.8845717 | 10.0769563 |
| 58     | 9.8077662 | 9.9233004  | 2      | 9.8844659 | 10.0766996 |
| 59     | 9.8079169 | 9.9235570  | 1      | 9.8843599 | 10.0764430 |
| 60     | 9.8080675 | 9.9238135  | 0      | 9.8842540 | 10.0761865 |



| 40. Grad. |           |            | 49. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.8080675 | 9.9238135  | 60        | 9.8842540 | 10.0761865 |
| 1         | 9.8082180 | 9.9240701  | 59        | 9.8841479 | 10.0759299 |
| 2         | 9.8083684 | 9.9243266  | 58        | 9.8840418 | 10.0756734 |
| 3         | 9.8085188 | 9.9245831  | 57        | 9.8839357 | 10.0754169 |
| 4         | 9.8086690 | 9.9248396  | 56        | 9.8838294 | 10.0751604 |
| 5         | 9.8088192 | 9.9250960  | 55        | 9.8837232 | 10.0749040 |
| 6         | 9.8089692 | 9.9253524  | 54        | 9.8836168 | 10.0746476 |
| 7         | 9.8091192 | 9.9256088  | 53        | 9.8835104 | 10.0743912 |
| 8         | 9.8092691 | 9.9258652  | 52        | 9.8834039 | 10.0741348 |
| 9         | 9.8094189 | 9.9261215  | 51        | 9.8832974 | 10.0738785 |
| 10        | 9.8095686 | 9.9263778  | 50        | 9.8831908 | 10.0736222 |
| 11        | 9.8097182 | 9.9266341  | 49        | 9.8830841 | 10.0733659 |
| 12        | 9.8098678 | 9.9268904  | 48        | 9.8829774 | 10.0731096 |
| 13        | 9.8100172 | 9.9271466  | 47        | 9.8828706 | 10.0728534 |
| 14        | 9.8101666 | 9.9274028  | 46        | 9.8827638 | 10.0725972 |
| 15        | 9.8103159 | 9.9276590  | 45        | 9.8826568 | 10.0723410 |
| 16        | 9.8104650 | 9.9279152  | 44        | 9.8825499 | 10.0720848 |
| 17        | 9.8106141 | 9.9281713  | 43        | 9.8824428 | 10.0718287 |
| 18        | 9.8107631 | 9.9284274  | 42        | 9.8823357 | 10.0715726 |
| 19        | 9.8109121 | 9.9286835  | 41        | 9.8822285 | 10.0713165 |
| 20        | 9.8110609 | 9.9289396  | 40        | 9.8821213 | 10.0710604 |
| 21        | 9.8112096 | 9.9291956  | 39        | 9.8820140 | 10.0708044 |
| 22        | 9.8113583 | 9.9294516  | 38        | 9.8819067 | 10.0705484 |
| 23        | 9.8115069 | 9.9297076  | 37        | 9.8817992 | 10.0702924 |
| 24        | 9.8116554 | 9.9299636  | 36        | 9.8816918 | 10.0700364 |
| 25        | 9.8118038 | 9.9302195  | 35        | 9.8815842 | 10.0697805 |
| 26        | 9.8119521 | 9.9304755  | 34        | 9.8814766 | 10.0695245 |
| 27        | 9.8121003 | 9.9307314  | 33        | 9.8813689 | 10.0692686 |
| 28        | 9.8122484 | 9.9309872  | 32        | 9.8812612 | 10.0690128 |
| 29        | 9.8123965 | 9.9312431  | 31        | 9.8811534 | 10.0687569 |
| 30        | 9.8125444 | 9.9314989  | 30        | 9.8810455 | 10.0685011 |



| Minut. | 40. Grad. |            | Minut. | 49. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.8125444 | 9.9314989  | 30     | 9.8810455 | 10.0685011 |
| 31     | 9.8126923 | 9.9317547  | 29     | 9.8809376 | 10.0682453 |
| 32     | 9.8128401 | 9.9320105  | 28     | 9.8808296 | 10.0679895 |
| 33     | 9.8129878 | 9.9322662  | 27     | 9.8807215 | 10.0677338 |
| 34     | 9.8131354 | 9.9325220  | 26     | 9.8806134 | 10.0674780 |
| 35     | 9.8132829 | 9.9327777  | 25     | 9.8805052 | 10.0672223 |
| 36     | 9.8134303 | 9.9330334  | 24     | 9.8803970 | 10.0669666 |
| 37     | 9.8135777 | 9.9332890  | 23     | 9.8802887 | 10.0667110 |
| 38     | 9.8137250 | 9.9335446  | 22     | 9.8801803 | 10.0664554 |
| 39     | 9.8138721 | 9.9338003  | 21     | 9.8800719 | 10.0661997 |
| 40     | 9.8140192 | 9.9340559  | 20     | 9.8799634 | 10.0659441 |
| 41     | 9.8141662 | 9.9343114  | 19     | 9.8798548 | 10.0656886 |
| 42     | 9.8143131 | 9.9345670  | 18     | 9.8797462 | 10.0654330 |
| 43     | 9.8144600 | 9.9348225  | 17     | 9.8796375 | 10.0651775 |
| 44     | 9.8146067 | 9.9350780  | 16     | 9.8795287 | 10.0649220 |
| 45     | 9.8147534 | 9.9353335  | 15     | 9.8794199 | 10.0646665 |
| 46     | 9.8148999 | 9.9355889  | 14     | 9.8793110 | 10.0644111 |
| 47     | 9.8150464 | 9.9358444  | 13     | 9.8792021 | 10.0641556 |
| 48     | 9.8151928 | 9.9360998  | 12     | 9.8790930 | 10.0639002 |
| 49     | 9.8153391 | 9.9363552  | 11     | 9.8789840 | 10.0636448 |
| 50     | 9.8154854 | 9.9366105  | 10     | 9.8788748 | 10.0633895 |
| 51     | 9.8156315 | 9.9368659  | 9      | 9.8787656 | 10.0631341 |
| 52     | 9.8157776 | 9.9371212  | 8      | 9.8786563 | 10.0628788 |
| 53     | 9.8159235 | 9.9373765  | 7      | 9.8785470 | 10.0626235 |
| 54     | 9.8160694 | 9.9376318  | 6      | 9.8784376 | 10.0623682 |
| 55     | 9.8162152 | 9.9378871  | 5      | 9.8783281 | 10.0621129 |
| 56     | 9.8163609 | 9.9381423  | 4      | 9.8782186 | 10.0618577 |
| 57     | 9.8165066 | 9.9383975  | 3      | 9.8781090 | 10.0616025 |
| 58     | 9.8166521 | 9.9386527  | 2      | 9.8779994 | 10.0613473 |
| 59     | 9.8167975 | 9.9389079  | 1      | 9.8778896 | 10.0610921 |
| 60     | 9.8169429 | 9.9391631  | 0      | 9.8777799 | 10.0608369 |



| Minut. | 41. Grad. |            |
|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |
| 0      | 9.8169429 | 9.9391631  |
| 1      | 9.8170882 | 9.9394182  |
| 2      | 9.8172334 | 9.9396733  |
| 3      | 9.8173785 | 9.9399284  |
| 4      | 9.8175235 | 9.9401835  |
| 5      | 9.8176685 | 9.9404385  |
| 6      | 9.8178133 | 9.9406936  |
| 7      | 9.8179581 | 9.9409486  |
| 8      | 9.8181028 | 9.9412036  |
| 9      | 9.8182474 | 9.9414585  |
| 10     | 9.8183919 | 9.9417135  |
| 11     | 9.8185364 | 9.9419684  |
| 12     | 9.8186807 | 9.9422233  |
| 13     | 9.8188250 | 9.9424782  |
| 14     | 9.8189692 | 9.9427331  |
| 15     | 9.8191133 | 9.9429879  |
| 16     | 9.8192573 | 9.9432428  |
| 17     | 9.8194012 | 9.9434976  |
| 18     | 9.8195450 | 9.9437524  |
| 19     | 9.8196888 | 9.9440072  |
| 20     | 9.8198325 | 9.9442619  |
| 21     | 9.8199761 | 9.9445166  |
| 22     | 9.8201196 | 9.9447714  |
| 23     | 9.8202630 | 9.9450261  |
| 24     | 9.8204063 | 9.9452807  |
| 25     | 9.8205496 | 9.9455354  |
| 26     | 9.8206927 | 9.9457900  |
| 27     | 9.8208358 | 9.9460447  |
| 28     | 9.8209788 | 9.9462993  |
| 29     | 9.8211217 | 9.9465539  |
| 30     | 9.8212646 | 9.9468084  |

N. 85.

| Minut. | 48. Grad.  |            |
|--------|------------|------------|
|        | Log. Sin.  | Log. Tang. |
| 60     | 9.87777799 | 10.0608369 |
| 59     | 9.8776700  | 10.0605818 |
| 58     | 9.8775601  | 10.0603267 |
| 57     | 9.8774501  | 10.0600716 |
| 56     | 9.8773401  | 10.0598165 |
| 55     | 9.8772300  | 10.0595615 |
| 54     | 9.8771198  | 10.0593064 |
| 53     | 9.8770096  | 10.0590514 |
| 52     | 9.8768993  | 10.0587964 |
| 51     | 9.8767889  | 10.0585415 |
| 50     | 9.8766785  | 10.0582865 |
| 49     | 9.8765680  | 10.0580316 |
| 48     | 9.8764574  | 10.0577767 |
| 47     | 9.8763468  | 10.0575218 |
| 46     | 9.8762361  | 10.0572669 |
| 45     | 9.8761253  | 10.0570121 |
| 44     | 9.8760145  | 10.0567572 |
| 43     | 9.8759036  | 10.0565024 |
| 42     | 9.8757927  | 10.0562476 |
| 41     | 9.8756816  | 10.0559928 |
| 40     | 9.8755706  | 10.0557381 |
| 39     | 9.8754594  | 10.0554834 |
| 38     | 9.8753482  | 10.0552286 |
| 37     | 9.8752369  | 10.0549739 |
| 36     | 9.8751256  | 10.0547193 |
| 35     | 9.8750142  | 10.0544646 |
| 34     | 9.8749027  | 10.0542100 |
| 33     | 9.8747912  | 10.0539553 |
| 32     | 9.8746795  | 10.0537007 |
| 31     | 9.8745679  | 10.0534461 |
| 30     | 9.8744561  | 10.0531916 |

F 3



| Minut. | 41. Grad. |            | Minut. | 48. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.8212646 | 9.9468084  | 30     | 9.8744561 | 10.0531916 |
| 31     | 9.8214073 | 9.9470630  | 29     | 9.8743443 | 10.0529370 |
| 32     | 9.8215500 | 9.9473175  | 28     | 9.8742325 | 10.0526825 |
| 33     | 9.8216926 | 9.9475720  | 27     | 9.8741205 | 10.0524280 |
| 34     | 9.8218351 | 9.9478265  | 26     | 9.8740085 | 10.0521735 |
| 35     | 9.8219775 | 9.9480810  | 25     | 9.8738965 | 10.0519190 |
| 36     | 9.8221198 | 9.9483355  | 24     | 9.8737844 | 10.0516645 |
| 37     | 9.8222621 | 9.9485899  | 23     | 9.8736722 | 10.0514101 |
| 38     | 9.8224042 | 9.9488443  | 22     | 9.8735599 | 10.0511557 |
| 39     | 9.8225463 | 9.9490987  | 21     | 9.8734476 | 10.0509013 |
| 40     | 9.8226883 | 9.9493531  | 20     | 9.8733352 | 10.0506469 |
| 41     | 9.8228302 | 9.9496075  | 19     | 9.8732227 | 10.0503925 |
| 42     | 9.8229721 | 9.9498619  | 18     | 9.8731102 | 10.0501381 |
| 43     | 9.8231138 | 9.9501162  | 17     | 9.8729976 | 10.0498838 |
| 44     | 9.8232555 | 9.9503705  | 16     | 9.8728849 | 10.0496295 |
| 45     | 9.8233971 | 9.9506248  | 15     | 9.8727722 | 10.0493752 |
| 46     | 9.8235386 | 9.9508791  | 14     | 9.8726594 | 10.0491209 |
| 47     | 9.8236800 | 9.9511334  | 13     | 9.8725466 | 10.0488666 |
| 48     | 9.8238213 | 9.9513876  | 12     | 9.8724337 | 10.0486124 |
| 49     | 9.8239626 | 9.9516419  | 11     | 9.8723207 | 10.0483581 |
| 50     | 9.8241037 | 9.9518961  | 10     | 9.8722076 | 10.0481039 |
| 51     | 9.8242448 | 9.9521503  | 9      | 9.8720945 | 10.0478497 |
| 52     | 9.8243858 | 9.9524045  | 8      | 9.8719813 | 10.0475955 |
| 53     | 9.8245267 | 9.9526587  | 7      | 9.8718681 | 10.0473413 |
| 54     | 9.8246676 | 9.9529128  | 6      | 9.8717548 | 10.0470872 |
| 55     | 9.8248083 | 9.9531670  | 5      | 9.8716414 | 10.0468330 |
| 56     | 9.8249490 | 9.9534211  | 4      | 9.8715279 | 10.0465789 |
| 57     | 9.8250896 | 9.9536752  | 3      | 9.8714144 | 10.0463248 |
| 58     | 9.8252301 | 9.9539293  | 2      | 9.8713008 | 10.0460707 |
| 59     | 9.8253705 | 9.9541834  | 1      | 9.8711872 | 10.0458166 |
| 60     | 9.8255109 | 9.9544374  | 0      | 9.8710735 | 10.0455626 |



| Minut. | 42. Grad. |            | Minut. | 47. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 0      | 9.8255109 | 9.9544374  | 60     | 9.8710735 | 10.0455626 |
| 1      | 9.8256512 | 9.9546915  | 59     | 9.8709597 | 10.0453085 |
| 2      | 9.8257913 | 9.9549455  | 58     | 9.8708458 | 10.0450545 |
| 3      | 9.8259314 | 9.9551995  | 57     | 9.8707319 | 10.0448005 |
| 4      | 9.8260715 | 9.9554535  | 56     | 9.8706179 | 10.0445465 |
| 5      | 9.8262114 | 9.9557075  | 55     | 9.8705039 | 10.0442925 |
| 6      | 9.8263512 | 9.9559615  | 54     | 9.8703898 | 10.0440385 |
| 7      | 9.8264910 | 9.9562154  | 53     | 9.8702756 | 10.0437846 |
| 8      | 9.8266307 | 9.9564694  | 52     | 9.8701613 | 10.0435306 |
| 9      | 9.8267703 | 9.9567233  | 51     | 9.8700470 | 10.0432767 |
| 10     | 9.8269098 | 9.9569772  | 50     | 9.8699326 | 10.0430228 |
| 11     | 9.8270493 | 9.9572311  | 49     | 9.8698182 | 10.0427689 |
| 12     | 9.8271887 | 9.9574850  | 48     | 9.8697037 | 10.0425150 |
| 13     | 9.8273279 | 9.9577389  | 47     | 9.8695891 | 10.0422611 |
| 14     | 9.8274671 | 9.9579927  | 46     | 9.8694744 | 10.0420073 |
| 15     | 9.8276063 | 9.9582465  | 45     | 9.8693597 | 10.0417535 |
| 16     | 9.8277453 | 9.9585004  | 44     | 9.8692449 | 10.0414996 |
| 17     | 9.8278843 | 9.9587542  | 43     | 9.8691301 | 10.0412458 |
| 18     | 9.8280231 | 9.9590080  | 42     | 9.8690152 | 10.0409920 |
| 19     | 9.8281619 | 9.9592618  | 41     | 9.8689002 | 10.0407382 |
| 20     | 9.8283006 | 9.9595155  | 40     | 9.8687851 | 10.0404845 |
| 21     | 9.8284393 | 9.9597693  | 39     | 9.8686700 | 10.0402307 |
| 22     | 9.8285778 | 9.9600230  | 38     | 9.8685548 | 10.0399770 |
| 23     | 9.8287163 | 9.9602767  | 37     | 9.8684396 | 10.0397233 |
| 24     | 9.8288547 | 9.9605305  | 36     | 9.8683242 | 10.0394695 |
| 25     | 9.8289930 | 9.9607842  | 35     | 9.8682088 | 10.0392158 |
| 26     | 9.8291312 | 9.9610378  | 34     | 9.8680934 | 10.0389622 |
| 27     | 9.8292694 | 9.9612915  | 33     | 9.8679779 | 10.0387085 |
| 28     | 9.8294075 | 9.9615452  | 32     | 9.8678623 | 10.0384548 |
| 29     | 9.8295454 | 9.9617988  | 31     | 9.8677466 | 10.0382012 |
| 30     | 9.8296833 | 9.9620525  | 30     | 9.8676309 | 10.0379475 |



| Minut. | 42. Grad. |            | Minut. | 47. Grad. |            |
|--------|-----------|------------|--------|-----------|------------|
|        | Log. Sin. | Log. Tang. |        | Log. Sin. | Log. Tang. |
| 30     | 9.8296833 | 9.9620525  | 30     | 9.8676309 | 10.0379475 |
| 31     | 9.8298212 | 9.9623061  | 29     | 9.8675151 | 10.0376939 |
| 32     | 9.8299589 | 9.9625597  | 28     | 9.8673992 | 10.0374403 |
| 33     | 9.8300966 | 9.9628133  | 27     | 9.8672833 | 10.0371833 |
| 34     | 9.8302342 | 9.9630669  | 26     | 9.8671673 | 10.0369331 |
| 35     | 9.8303717 | 9.9633204  | 25     | 9.8670512 | 10.0366796 |
| 36     | 9.8305091 | 9.9635740  | 24     | 9.8669351 | 10.0364260 |
| 37     | 9.8306464 | 9.9638275  | 23     | 9.8668189 | 10.0361725 |
| 38     | 9.8307837 | 9.9640811  | 22     | 9.8667026 | 10.0359189 |
| 39     | 9.8309209 | 9.9643346  | 21     | 9.8665863 | 10.0356654 |
| 40     | 9.8310580 | 9.9645881  | 20     | 9.8664699 | 10.0354119 |
| 41     | 9.8311950 | 9.9648416  | 19     | 9.8663534 | 10.0351584 |
| 42     | 9.8313320 | 9.9650951  | 18     | 9.8662369 | 10.0349049 |
| 43     | 9.8314688 | 9.9653486  | 17     | 9.8661203 | 10.0346514 |
| 44     | 9.8316056 | 9.9656020  | 16     | 9.8660036 | 10.0343980 |
| 45     | 9.8317423 | 9.9658555  | 15     | 9.8658868 | 10.0341445 |
| 46     | 9.8318789 | 9.9661089  | 14     | 9.8657700 | 10.0338911 |
| 47     | 9.8320155 | 9.9663623  | 13     | 9.8656531 | 10.0336377 |
| 48     | 9.8321519 | 9.9666157  | 12     | 9.8655362 | 10.0333843 |
| 49     | 9.8322883 | 9.9668692  | 11     | 9.8654192 | 10.0331308 |
| 50     | 9.8324246 | 9.9671225  | 10     | 9.8653021 | 10.0328775 |
| 51     | 9.8325609 | 9.9673759  | 9      | 9.8651849 | 10.0326241 |
| 52     | 9.8326970 | 9.9676293  | 8      | 9.8650677 | 10.0323707 |
| 53     | 9.8328331 | 9.9678827  | 7      | 9.8649504 | 10.0321173 |
| 54     | 9.8329691 | 9.9681360  | 6      | 9.8648331 | 10.0318640 |
| 55     | 9.8331050 | 9.9683893  | 5      | 9.8647156 | 10.0316107 |
| 56     | 9.8332408 | 9.9686427  | 4      | 9.8645981 | 10.0313573 |
| 57     | 9.8333766 | 9.9688960  | 3      | 9.8644806 | 10.0311040 |
| 58     | 9.8335122 | 9.9691493  | 2      | 9.8643629 | 10.0308507 |
| 59     | 9.8336478 | 9.9694026  | 1      | 9.8642452 | 10.0305974 |
| 60     | 9.8337833 | 9.9696559  | 0      | 9.8641275 | 10.0303441 |

N. 88.

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| 43. Grad. |           |            | 46. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.8337833 | 9.9696559  | 60        | 9.8641275 | 10.0303441 |
| 1         | 9.8339188 | 9.9699091  | 59        | 9.8640096 | 10.0300909 |
| 2         | 9.8340541 | 9.9701622  | 58        | 9.8638917 | 10.0298376 |
| 3         | 9.8341894 | 9.9704157  | 57        | 9.8637737 | 10.0295843 |
| 4         | 9.8343246 | 9.9706689  | 56        | 9.8636557 | 10.0293311 |
| 5         | 9.8344597 | 9.9709221  | 55        | 9.8635376 | 10.0290779 |
| 6         | 9.8345948 | 9.9711754  | 54        | 9.8634194 | 10.0288246 |
| 7         | 9.8347297 | 9.9714286  | 53        | 9.8633011 | 10.0285714 |
| 8         | 9.8348646 | 9.9716818  | 52        | 9.8631828 | 10.0283182 |
| 9         | 9.8349994 | 9.9719350  | 51        | 9.8630644 | 10.0280650 |
| 10        | 9.8351341 | 9.9721882  | 50        | 9.8629460 | 10.0278118 |
| 11        | 9.8352688 | 9.9724413  | 49        | 9.8628274 | 10.0275587 |
| 12        | 9.8354033 | 9.9726945  | 48        | 9.8627088 | 10.0273055 |
| 13        | 9.8355378 | 9.9729477  | 47        | 9.8625903 | 10.0270523 |
| 14        | 9.8356722 | 9.9732008  | 46        | 9.8624714 | 10.0267992 |
| 15        | 9.8358066 | 9.9734539  | 45        | 9.8623526 | 10.0265461 |
| 16        | 9.8359408 | 9.9737071  | 44        | 9.8622338 | 10.0262929 |
| 17        | 9.8360750 | 9.9739602  | 43        | 9.8621148 | 10.0260398 |
| 18        | 9.8362091 | 9.9742133  | 42        | 9.8619958 | 10.0257867 |
| 19        | 9.8363431 | 9.9744664  | 41        | 9.8618767 | 10.0255336 |
| 20        | 9.8364771 | 9.9747195  | 40        | 9.8617576 | 10.0252805 |
| 21        | 9.8366109 | 9.9749726  | 39        | 9.8616383 | 10.0250274 |
| 22        | 9.8367447 | 9.9752257  | 38        | 9.8615190 | 10.0247743 |
| 23        | 9.8368784 | 9.9754787  | 37        | 9.8613997 | 10.0245213 |
| 24        | 9.8370121 | 9.9757318  | 36        | 9.8612803 | 10.0242682 |
| 25        | 9.8371456 | 9.9759849  | 35        | 9.8611608 | 10.0240151 |
| 26        | 9.8372791 | 9.9762379  | 34        | 9.8610412 | 10.0237621 |
| 27        | 9.8374125 | 9.9764909  | 33        | 9.8609215 | 10.0235091 |
| 28        | 9.8375458 | 9.9767440  | 32        | 9.8608018 | 10.0232560 |
| 29        | 9.8376790 | 9.9769970  | 31        | 9.8606821 | 10.0230030 |
| 30        | 9.8378122 | 9.9772500  | 30        | 9.8605622 | 10.0227500 |

N. 89.

F 5

2750

10547210

750772750

110547210



| 43. Grad. |           |            | 46. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.8378122 | 9.9772500  | 30        | 9.8605622 | 10.0227500 |
| 31        | 9.8379453 | 9.9775030  | 29        | 9.8604423 | 10.0224970 |
| 32        | 9.8380783 | 9.9777560  | 28        | 9.8603223 | 10.0222440 |
| 33        | 9.8382112 | 9.9780090  | 27        | 9.8602022 | 10.0219910 |
| 34        | 9.8383441 | 9.9782620  | 26        | 9.8600821 | 10.0217380 |
| 35        | 9.8384769 | 9.9785149  | 25        | 9.8599619 | 10.0214851 |
| 36        | 9.8386096 | 9.9787679  | 24        | 9.8598416 | 10.0212321 |
| 37        | 9.8387422 | 9.9790209  | 23        | 9.8597213 | 10.0209791 |
| 38        | 9.8388747 | 9.9792738  | 22        | 9.8596009 | 10.0207262 |
| 39        | 9.8390072 | 9.9795268  | 21        | 9.8594804 | 10.0204732 |
| 40        | 9.8391396 | 9.9797797  | 20        | 9.8593599 | 10.0202203 |
| 41        | 9.8392719 | 9.9800326  | 19        | 9.8592393 | 10.0199674 |
| 42        | 9.8394041 | 9.9802856  | 18        | 9.8591186 | 10.0197144 |
| 43        | 9.8395363 | 9.9805385  | 17        | 9.8589978 | 10.0194615 |
| 44        | 9.8396684 | 9.9807914  | 16        | 9.8588770 | 10.0192086 |
| 45        | 9.8398004 | 9.9810443  | 15        | 9.8587561 | 10.0189557 |
| 46        | 9.8399323 | 9.9812972  | 14        | 9.8586351 | 10.0187028 |
| 47        | 9.8400642 | 9.9815501  | 13        | 9.8585141 | 10.0184499 |
| 48        | 9.8401959 | 9.9818030  | 12        | 9.8583929 | 10.0181970 |
| 49        | 9.8403276 | 9.9820559  | 11        | 9.8582718 | 10.0179441 |
| 50        | 9.8404593 | 9.9823087  | 10        | 9.8581505 | 10.0176913 |
| 51        | 9.8405908 | 9.9825616  | 9         | 9.8580292 | 10.0174384 |
| 52        | 9.8407223 | 9.9828145  | 8         | 9.8579078 | 10.0171855 |
| 53        | 9.8408537 | 9.9830673  | 7         | 9.8577863 | 10.0169327 |
| 54        | 9.8409850 | 9.9833202  | 6         | 9.8576648 | 10.0166798 |
| 55        | 9.8411162 | 9.9835730  | 5         | 9.8575432 | 10.0164270 |
| 56        | 9.8412474 | 9.9838259  | 4         | 9.8574215 | 10.0161741 |
| 57        | 9.8413785 | 9.9840787  | 3         | 9.8572998 | 10.0159213 |
| 58        | 9.8415095 | 9.9843315  | 2         | 9.8571779 | 10.0156685 |
| 59        | 9.8416404 | 9.9845844  | 1         | 9.8570561 | 10.0154156 |
| 60        | 9.8417713 | 9.9848372  | 0         | 9.8569341 | 10.0151628 |

N. 90.

|      |   |      |
|------|---|------|
| 9..9 | 1 | 9..9 |
| 8..6 | 1 | 8..6 |
| 7..4 | 1 | 7..4 |
| 6..2 | 1 | 6..2 |
| 5..0 | 1 | 5..0 |
| 3..8 | 1 | 3..8 |



| 44. Grad. |           |            | 45. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 0         | 9.8417713 | 9.9848372  | 60        | 9.8569341 | 10.0151628 |
| 1         | 9.8419021 | 9.9850900  | 59        | 9.8568121 | 10.0149100 |
| 2         | 9.8420328 | 9.9853428  | 58        | 9.8566900 | 10.0146572 |
| 3         | 9.8421634 | 9.9855956  | 57        | 9.8565678 | 10.0144044 |
| 4         | 9.8422939 | 9.9858484  | 56        | 9.8564455 | 10.0141516 |
| 5         | 9.8424244 | 9.9861012  | 55        | 9.8563232 | 10.0138988 |
| 6         | 9.8425548 | 9.9863540  | 54        | 9.8562008 | 10.0136460 |
| 7         | 9.8426851 | 9.9866068  | 53        | 9.8560784 | 10.0133932 |
| 8         | 9.8428154 | 9.9868596  | 52        | 9.8559558 | 10.0131404 |
| 9         | 9.8429456 | 9.9871123  | 51        | 9.8558332 | 10.0128877 |
| 10        | 9.8430757 | 9.9873651  | 50        | 9.8557106 | 10.0126349 |
| 11        | 9.8432057 | 9.9876179  | 49        | 9.8555878 | 10.0123821 |
| 12        | 9.8433356 | 9.9878706  | 48        | 9.8554650 | 10.0121294 |
| 13        | 9.8434655 | 9.9881234  | 47        | 9.8553421 | 10.0118766 |
| 14        | 9.8435953 | 9.9883761  | 46        | 9.8552192 | 10.0116239 |
| 15        | 9.8437250 | 9.9886289  | 45        | 9.8550961 | 10.0113711 |
| 16        | 9.8438547 | 9.9888816  | 44        | 9.8549730 | 10.0111184 |
| 17        | 9.8439842 | 9.9891344  | 43        | 9.8548499 | 10.0108656 |
| 18        | 9.8441137 | 9.9893871  | 42        | 9.8547266 | 10.0106129 |
| 19        | 9.8442432 | 9.9896399  | 41        | 9.8546033 | 10.0103601 |
| 20        | 9.8443725 | 9.9898926  | 40        | 9.8544799 | 10.0101074 |
| 21        | 9.8445018 | 9.9901453  | 39        | 9.8543564 | 10.0098547 |
| 22        | 9.8446310 | 9.9903981  | 38        | 9.8542329 | 10.0096019 |
| 23        | 9.8447601 | 9.9906508  | 37        | 9.8541093 | 10.0093492 |
| 24        | 9.8448891 | 9.9909035  | 36        | 9.8539856 | 10.0090965 |
| 25        | 9.8450181 | 9.9911562  | 35        | 9.8538619 | 10.0088438 |
| 26        | 9.8451470 | 9.9914089  | 34        | 9.8537381 | 10.0085911 |
| 27        | 9.8452758 | 9.9916616  | 33        | 9.8536142 | 10.0083384 |
| 28        | 9.8454045 | 9.9919143  | 32        | 9.8534902 | 10.0080857 |
| 29        | 9.8455332 | 9.9921670  | 31        | 9.8533662 | 10.0078330 |
| 30        | 9.8456618 | 9.9924197  | 30        | 9.8532421 | 10.0075803 |



| 44. Grad. |           |            | 45. Grad. |           |            |
|-----------|-----------|------------|-----------|-----------|------------|
| Minut.    | Log. Sin. | Log. Tang. | Minut.    | Log. Sin. | Log. Tang. |
| 30        | 9.8456618 | 9.9924197  | 30        | 9.8532421 | 10.0075803 |
| 31        | 9.8457903 | 9.9926724  | 29        | 9.8531179 | 10.0073276 |
| 32        | 9.8459188 | 9.9929251  | 28        | 9.8529936 | 10.0070749 |
| 33        | 9.8460471 | 9.9931778  | 27        | 9.8528693 | 10.0068222 |
| 34        | 9.8461754 | 9.9934305  | 26        | 9.8527449 | 10.0065695 |
| 35        | 9.8463036 | 9.9936832  | 25        | 9.8526204 | 10.0063168 |
| 36        | 9.8464318 | 9.9939359  | 24        | 9.8524959 | 10.0060641 |
| 37        | 9.8465599 | 9.9941886  | 23        | 9.8523713 | 10.0058114 |
| 38        | 9.8466879 | 9.9944413  | 22        | 9.8522466 | 10.0055587 |
| 39        | 9.8468158 | 9.9946940  | 21        | 9.8521218 | 10.0053060 |
| 40        | 9.8469436 | 9.9949466  | 20        | 9.8519970 | 10.0050534 |
| 41        | 9.8470714 | 9.9951993  | 19        | 9.8518721 | 10.0048007 |
| 42        | 9.8471991 | 9.9954520  | 18        | 9.8517471 | 10.0045480 |
| 43        | 9.8473267 | 9.9957047  | 17        | 9.8516220 | 10.0042953 |
| 44        | 9.8474543 | 9.9959573  | 16        | 9.8514969 | 10.0040427 |
| 45        | 9.8475817 | 9.9962100  | 15        | 9.8513717 | 10.0037900 |
| 46        | 9.8477091 | 9.9964627  | 14        | 9.8512465 | 10.0035373 |
| 47        | 9.8478365 | 9.9967154  | 13        | 9.8511211 | 10.0032846 |
| 48        | 9.8479637 | 9.9969680  | 12        | 9.8509957 | 10.0030320 |
| 49        | 9.8480909 | 9.9972207  | 11        | 9.8508702 | 10.0027793 |
| 50        | 9.8482180 | 9.9974734  | 10        | 9.8507446 | 10.0025266 |
| 51        | 9.8483450 | 9.9977260  | 9         | 9.8506190 | 10.0022740 |
| 52        | 9.8484720 | 9.9979787  | 8         | 9.8504933 | 10.0020213 |
| 53        | 9.8485989 | 9.9982314  | 7         | 9.8503675 | 10.0017686 |
| 54        | 9.8487257 | 9.9984840  | 6         | 9.8502417 | 10.0015160 |
| 55        | 9.8488524 | 9.9987367  | 5         | 9.8501157 | 10.0012633 |
| 56        | 9.8489791 | 9.9989893  | 4         | 9.8499897 | 10.0010107 |
| 57        | 9.8491057 | 9.9992420  | 3         | 9.8498637 | 10.0007580 |
| 58        | 9.8492322 | 9.9994947  | 2         | 9.8497375 | 10.0005053 |
| 59        | 9.8493586 | 9.9997473  | 1         | 9.8496113 | 10.0002527 |
| 60        | 9.8494850 | 10.0000000 | 0         | 9.8494850 | 10.0000000 |



**H. BRIGGII**  
**TABULA**  
**LOGARITHMORUM,**  
**Pro numeris naturali serie**  
**crescentibus.**



H. BRIGG

TABULA

LOGARITHMORUM.

Pro numeris naturalibus

et fractionibus



| N. | Logarith.  | N. | Logarith. | N.  | Logarith. |
|----|------------|----|-----------|-----|-----------|
| 1  | 0.00000000 | 34 | 1.5314789 | 67  | 1.8260748 |
| 2  | 0.3010300  | 35 | 1.5440680 | 68  | 1.8325089 |
| 3  | 0.4771213  | 36 | 1.5563025 | 69  | 1.8388491 |
| 4  | 0.6020600  | 37 | 1.5682017 | 70  | 1.8450980 |
| 5  | 0.6989700  | 38 | 1.5797836 | 71  | 1.8512583 |
| 6  | 0.7781513  | 39 | 1.5910646 | 72  | 1.8573325 |
| 7  | 0.8450980  | 40 | 1.6020600 | 73  | 1.8633229 |
| 8  | 0.9030900  | 41 | 1.6127839 | 74  | 1.8692317 |
| 9  | 0.9542425  | 42 | 1.6232493 | 75  | 1.8750613 |
| 10 | 1.00000000 | 43 | 1.6334685 | 76  | 1.8808136 |
| 11 | 1.0413927  | 44 | 1.6434527 | 77  | 1.8864907 |
| 12 | 1.0791812  | 45 | 1.6532125 | 78  | 1.8920946 |
| 13 | 1.1139433  | 46 | 1.6627578 | 79  | 1.8976271 |
| 14 | 1.1461280  | 47 | 1.6720979 | 80  | 1.9030900 |
| 15 | 1.1760913  | 48 | 1.6812412 | 81  | 1.9084850 |
| 16 | 1.2041200  | 49 | 1.6901961 | 82  | 1.9138138 |
| 17 | 1.2304489  | 50 | 1.6989700 | 83  | 1.9190781 |
| 18 | 1.2552725  | 51 | 1.7075702 | 84  | 1.9242793 |
| 19 | 1.2787536  | 52 | 1.7160033 | 85  | 1.9294189 |
| 20 | 1.3010300  | 53 | 1.7242759 | 86  | 1.9344984 |
| 21 | 1.3222193  | 54 | 1.7323938 | 87  | 1.9395192 |
| 22 | 1.3424227  | 55 | 1.7403627 | 88  | 1.9444827 |
| 23 | 1.3617278  | 56 | 1.7481880 | 89  | 1.9493900 |
| 24 | 1.3802112  | 57 | 1.7558748 | 90  | 1.9542425 |
| 25 | 1.3979400  | 58 | 1.7634280 | 91  | 1.9590414 |
| 26 | 1.4149733  | 59 | 1.7708520 | 92  | 1.9637878 |
| 27 | 1.4313638  | 60 | 1.7781512 | 93  | 1.9684829 |
| 28 | 1.4471580  | 61 | 1.7853298 | 94  | 1.9731279 |
| 29 | 1.4623980  | 62 | 1.7923917 | 95  | 1.9777236 |
| 30 | 1.4771212  | 63 | 1.7993405 | 96  | 1.9822712 |
| 31 | 1.4913617  | 64 | 1.8061800 | 97  | 1.9867717 |
| 32 | 1.5051500  | 65 | 1.8129134 | 98  | 1.9912261 |
| 33 | 1.5185139  | 66 | 1.8195439 | 99  | 1.9956352 |
| 34 | 1.5314789  | 67 | 1.8260748 | 100 | 2.0000000 |

Num. 75.

0.63880  
3889.23889.2  
63880.63880.6



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 101 | 2.0043214 | 134 | 2.1271048 | 167 | 2.2227165 |
| 102 | 2.0086002 | 135 | 2.1303338 | 168 | 2.2253093 |
| 103 | 2.0128372 | 136 | 2.1335389 | 169 | 2.2278867 |
| 104 | 2.0170333 | 137 | 2.1367206 | 170 | 2.2304489 |
| 105 | 2.0211893 | 138 | 2.1398791 | 171 | 2.2329951 |
| 106 | 2.0253059 | 139 | 2.1430148 | 172 | 2.2355284 |
| 107 | 2.0293838 | 140 | 2.1461280 | 173 | 2.2380461 |
| 108 | 2.0334238 | 141 | 2.1492191 | 174 | 2.2405492 |
| 109 | 2.0374265 | 142 | 2.1522883 | 175 | 2.2430380 |
| 110 | 2.0413927 | 143 | 2.1553360 | 176 | 2.2455127 |
| 111 | 2.0453230 | 144 | 2.1583625 | 177 | 2.2479733 |
| 112 | 2.0492180 | 145 | 2.1613680 | 178 | 2.2504200 |
| 113 | 2.0530784 | 146 | 2.1643529 | 179 | 2.2528530 |
| 114 | 2.0569049 | 147 | 2.1673173 | 180 | 2.2552725 |
| 115 | 2.0606978 | 148 | 2.1702617 | 181 | 2.2576786 |
| 116 | 2.0644580 | 149 | 2.1731863 | 182 | 2.2600714 |
| 117 | 2.0681859 | 150 | 2.1760913 | 183 | 2.2624511 |
| 118 | 2.0718820 | 151 | 2.1789769 | 184 | 2.2648178 |
| 119 | 2.0755470 | 152 | 2.1818436 | 185 | 2.2671717 |
| 120 | 2.0791812 | 153 | 2.1846914 | 186 | 2.2695129 |
| 121 | 2.0827854 | 154 | 2.1875207 | 187 | 2.2718416 |
| 122 | 2.0863598 | 155 | 2.1903317 | 188 | 2.2741578 |
| 123 | 2.0899051 | 156 | 2.1931246 | 189 | 2.2764618 |
| 124 | 2.0934217 | 157 | 2.1958996 | 190 | 2.2787536 |
| 125 | 2.0969100 | 158 | 2.1986571 | 191 | 2.2810334 |
| 126 | 2.1003705 | 159 | 2.2013972 | 192 | 2.2833012 |
| 127 | 2.1038037 | 160 | 2.2041200 | 193 | 2.2855573 |
| 128 | 2.1072100 | 161 | 2.2068259 | 194 | 2.2878017 |
| 129 | 2.1105897 | 162 | 2.2095150 | 195 | 2.2900346 |
| 130 | 2.1139433 | 163 | 2.2121876 | 196 | 2.2922561 |
| 131 | 2.1172713 | 164 | 2.2148438 | 197 | 2.2944662 |
| 132 | 2.1205739 | 165 | 2.2174839 | 198 | 2.2966652 |
| 133 | 2.1238516 | 166 | 2.2201081 | 199 | 2.2988531 |
| 134 | 2.1271048 | 167 | 2.2227165 | 200 | 2.3010300 |

N. 98.

200



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 201 | 2.3031961 | 234 | 2.3692159 | 267 | 2.4265113 |
| 202 | 2.3053514 | 235 | 2.3710679 | 268 | 2.4281348 |
| 203 | 2.3074960 | 236 | 2.3729120 | 269 | 2.4297523 |
| 204 | 2.3096302 | 237 | 2.3747483 | 270 | 2.4313638 |
| 205 | 2.3117539 | 238 | 2.3765770 | 271 | 2.4329693 |
| 206 | 2.3138672 | 239 | 2.3783979 | 272 | 2.4345689 |
| 207 | 2.3159703 | 240 | 2.3802112 | 273 | 2.4361626 |
| 208 | 2.3180633 | 241 | 2.3820170 | 274 | 2.4377506 |
| 209 | 2.3201463 | 242 | 2.3838154 | 275 | 2.4393327 |
| 210 | 2.3222193 | 243 | 2.3856063 | 276 | 2.4409091 |
| 211 | 2.3242825 | 244 | 2.3873898 | 277 | 2.4424798 |
| 212 | 2.3263359 | 245 | 2.3891661 | 278 | 2.4440448 |
| 213 | 2.3283796 | 246 | 2.3909351 | 279 | 2.4456042 |
| 214 | 2.3304138 | 247 | 2.3926969 | 280 | 2.4471580 |
| 215 | 2.3324385 | 248 | 2.3944517 | 281 | 2.4487063 |
| 216 | 2.3344537 | 249 | 2.3961993 | 282 | 2.4502491 |
| 217 | 2.3364597 | 250 | 2.3979400 | 283 | 2.4517864 |
| 218 | 2.3384565 | 251 | 2.3996737 | 284 | 2.4533183 |
| 219 | 2.3404441 | 252 | 2.4014005 | 285 | 2.4548449 |
| 220 | 2.3424227 | 253 | 2.4031205 | 286 | 2.4563660 |
| 221 | 2.3443923 | 254 | 2.4048337 | 287 | 2.4578819 |
| 222 | 2.3463530 | 255 | 2.4065402 | 288 | 2.4593925 |
| 223 | 2.3483049 | 256 | 2.4082400 | 289 | 2.4608978 |
| 224 | 2.3502480 | 257 | 2.4099331 | 290 | 2.4623980 |
| 225 | 2.3521825 | 258 | 2.4116197 | 291 | 2.4638930 |
| 226 | 2.3541084 | 259 | 2.4132998 | 292 | 2.4653828 |
| 227 | 2.3560259 | 260 | 2.4149733 | 293 | 2.4668676 |
| 228 | 2.3579348 | 261 | 2.4166405 | 294 | 2.4683473 |
| 229 | 2.3598355 | 262 | 2.4183013 | 295 | 2.4698220 |
| 230 | 2.3617278 | 263 | 2.4199557 | 296 | 2.4712917 |
| 231 | 2.3636120 | 264 | 2.4216039 | 297 | 2.4727564 |
| 232 | 2.3654880 | 265 | 2.4232459 | 298 | 2.4742163 |
| 233 | 2.3673559 | 266 | 2.4248816 | 299 | 2.4756712 |
| 234 | 2.3692159 | 267 | 2.4265113 | 300 | 2.4771213 |



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 301 | 2.4785665 | 334 | 2.5237465 | 367 | 2.5646661 |
| 302 | 2.4800069 | 335 | 2.5250448 | 368 | 2.5658478 |
| 303 | 2.4814426 | 336 | 2.5263393 | 369 | 2.5670264 |
| 304 | 2.4828736 | 337 | 2.5276299 | 370 | 2.5682017 |
| 305 | 2.4842998 | 338 | 2.5289167 | 371 | 2.5693739 |
| 306 | 2.4857214 | 339 | 2.5301997 | 372 | 2.5705429 |
| 307 | 2.4871384 | 340 | 2.5314789 | 373 | 2.5717088 |
| 308 | 2.4885507 | 341 | 2.5327544 | 374 | 2.5728716 |
| 309 | 2.4899585 | 342 | 2.5340261 | 375 | 2.5740313 |
| 310 | 2.4913617 | 343 | 2.5352941 | 376 | 2.5751878 |
| 311 | 2.4927604 | 344 | 2.5365584 | 377 | 2.5763413 |
| 312 | 2.4941546 | 345 | 2.5378191 | 378 | 2.5774918 |
| 313 | 2.4955443 | 346 | 2.5390761 | 379 | 2.5786392 |
| 314 | 2.4969296 | 347 | 2.5403295 | 380 | 2.5797836 |
| 315 | 2.4983106 | 348 | 2.5415792 | 381 | 2.5809250 |
| 316 | 2.4996871 | 349 | 2.5428254 | 382 | 2.5820634 |
| 317 | 2.5010593 | 350 | 2.5440680 | 383 | 2.5831988 |
| 318 | 2.5024271 | 351 | 2.5453071 | 384 | 2.5843312 |
| 319 | 2.5037907 | 352 | 2.5465427 | 385 | 2.5854607 |
| 320 | 2.5051500 | 353 | 2.5477747 | 386 | 2.5865873 |
| 321 | 2.5065050 | 354 | 2.5490033 | 387 | 2.5877110 |
| 322 | 2.5078559 | 355 | 2.5502284 | 388 | 2.5888317 |
| 323 | 2.5092025 | 356 | 2.5514500 | 389 | 2.5899496 |
| 324 | 2.5105450 | 357 | 2.5526682 | 390 | 2.5910646 |
| 325 | 2.5118834 | 358 | 2.5538830 | 391 | 2.5921768 |
| 326 | 2.5132176 | 359 | 2.5550944 | 392 | 2.5932861 |
| 327 | 2.5145477 | 360 | 2.5563025 | 393 | 2.5943925 |
| 328 | 2.5158738 | 361 | 2.5575072 | 394 | 2.5954962 |
| 329 | 2.5171959 | 362 | 2.5587086 | 395 | 2.5965971 |
| 330 | 2.5185139 | 363 | 2.5599066 | 396 | 2.5976952 |
| 331 | 2.5198280 | 364 | 2.5611014 | 397 | 2.5987905 |
| 332 | 2.5211381 | 365 | 2.5622929 | 398 | 2.5998831 |
| 333 | 2.5224442 | 366 | 2.5634811 | 399 | 2.6009729 |
| 334 | 2.5237465 | 367 | 2.5646661 | 400 | 2.6020600 |



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 401 | 2.6031444 | 434 | 2.6374897 | 467 | 2.6693169 |
| 402 | 2.6042261 | 435 | 2.6384893 | 468 | 2.6702459 |
| 403 | 2.6053050 | 436 | 2.6394865 | 469 | 2.6711728 |
| 404 | 2.6063814 | 437 | 2.6404814 | 470 | 2.6720979 |
| 405 | 2.6074550 | 438 | 2.6414741 | 471 | 2.6730209 |
| 406 | 2.6085260 | 439 | 2.6424645 | 472 | 2.6739420 |
| 407 | 2.6095944 | 440 | 2.6434527 | 473 | 2.6748611 |
| 408 | 2.6106602 | 441 | 2.6444386 | 474 | 2.6757783 |
| 409 | 2.6117233 | 442 | 2.6454223 | 475 | 2.6766936 |
| 410 | 2.6127839 | 443 | 2.6464037 | 476 | 2.6776069 |
| 411 | 2.6138418 | 444 | 2.6473830 | 477 | 2.6785184 |
| 412 | 2.6148972 | 445 | 2.6483600 | 478 | 2.6794279 |
| 413 | 2.6159500 | 446 | 2.6493349 | 479 | 2.6803355 |
| 414 | 2.6170003 | 447 | 2.6503075 | 480 | 2.6812412 |
| 415 | 2.6180481 | 448 | 2.6512780 | 481 | 2.6821451 |
| 416 | 2.6190933 | 449 | 2.6522463 | 482 | 2.6830470 |
| 417 | 2.6201361 | 450 | 2.6532125 | 483 | 2.6839471 |
| 418 | 2.6211763 | 451 | 2.6541765 | 484 | 2.6848454 |
| 419 | 2.6222140 | 452 | 2.6551384 | 485 | 2.6857417 |
| 420 | 2.6232493 | 453 | 2.6560982 | 486 | 2.6866363 |
| 421 | 2.6242821 | 454 | 2.6570558 | 487 | 2.6875290 |
| 422 | 2.6253124 | 455 | 2.6580114 | 488 | 2.6884198 |
| 423 | 2.6263404 | 456 | 2.6589648 | 489 | 2.6893089 |
| 424 | 2.6273659 | 457 | 2.6599162 | 490 | 2.6901961 |
| 425 | 2.6283889 | 458 | 2.6608655 | 491 | 2.6910815 |
| 426 | 2.6294096 | 459 | 2.6618127 | 492 | 2.6919651 |
| 427 | 2.6304279 | 460 | 2.6627578 | 493 | 2.6928469 |
| 428 | 2.6314438 | 461 | 2.6637009 | 494 | 2.6937269 |
| 429 | 2.6324573 | 462 | 2.6646420 | 495 | 2.6946052 |
| 430 | 2.6334685 | 463 | 2.6655810 | 496 | 2.6954817 |
| 431 | 2.6344773 | 464 | 2.6665180 | 497 | 2.6963564 |
| 432 | 2.6354837 | 465 | 2.6674529 | 498 | 2.6972293 |
| 433 | 2.6364879 | 466 | 2.6683859 | 499 | 2.6981005 |
| 434 | 2.6374897 | 467 | 2.6693169 | 500 | 2.6989700 |



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 501 | 2.6998377 | 534 | 2.7275413 | 567 | 2.7535831 |
| 502 | 2.7007037 | 535 | 2.7283538 | 568 | 2.7543483 |
| 503 | 2.7015680 | 536 | 2.7291648 | 569 | 2.7551123 |
| 504 | 2.7024305 | 537 | 2.7299743 | 570 | 2.7558749 |
| 505 | 2.7032914 | 538 | 2.7307823 | 571 | 2.7566361 |
| 506 | 2.7041505 | 539 | 2.7315888 | 572 | 2.7573960 |
| 507 | 2.7050080 | 540 | 2.7323938 | 573 | 2.7581546 |
| 508 | 2.7058637 | 541 | 2.7331973 | 574 | 2.7589119 |
| 509 | 2.7067178 | 542 | 2.7339993 | 575 | 2.7596678 |
| 510 | 2.7075702 | 543 | 2.7347998 | 576 | 2.7604225 |
| 511 | 2.7084209 | 544 | 2.7355989 | 577 | 2.7611758 |
| 512 | 2.7092700 | 545 | 2.7363965 | 578 | 2.7619278 |
| 513 | 2.7101174 | 546 | 2.7371926 | 579 | 2.7626786 |
| 514 | 2.7109631 | 547 | 2.7379873 | 580 | 2.7634280 |
| 515 | 2.7118072 | 548 | 2.7387806 | 581 | 2.7641761 |
| 516 | 2.7126497 | 549 | 2.7395723 | 582 | 2.7649230 |
| 517 | 2.7134905 | 550 | 2.7403627 | 583 | 2.7656686 |
| 518 | 2.7143298 | 551 | 2.7411516 | 584 | 2.7664128 |
| 519 | 2.7151674 | 552 | 2.7419391 | 585 | 2.7671559 |
| 520 | 2.7160033 | 553 | 2.7427251 | 586 | 2.7678976 |
| 521 | 2.7168377 | 554 | 2.7435098 | 587 | 2.7686381 |
| 522 | 2.7176705 | 555 | 2.7442930 | 588 | 2.7693773 |
| 523 | 2.7185017 | 556 | 2.7450748 | 589 | 2.7701153 |
| 524 | 2.7193313 | 557 | 2.7458552 | 590 | 2.7708520 |
| 525 | 2.7201593 | 558 | 2.7466342 | 591 | 2.7715875 |
| 526 | 2.7209857 | 559 | 2.7474118 | 592 | 2.7723217 |
| 527 | 2.7218106 | 560 | 2.7481880 | 593 | 2.7730547 |
| 528 | 2.7226339 | 561 | 2.7489629 | 594 | 2.7737864 |
| 529 | 2.7234557 | 562 | 2.7497363 | 595 | 2.7745170 |
| 530 | 2.7242759 | 563 | 2.7505084 | 596 | 2.7752463 |
| 531 | 2.7250945 | 564 | 2.7512791 | 597 | 2.7759743 |
| 532 | 2.7259116 | 565 | 2.7520484 | 598 | 2.7767012 |
| 533 | 2.7267272 | 566 | 2.7528164 | 599 | 2.7774268 |
| 534 | 2.7275413 | 567 | 2.7535831 | 600 | 2.7781512 |



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 601 | 2.7788745 | 634 | 2.8020893 | 667 | 2.8241258 |
| 602 | 2.7795965 | 635 | 2.8027737 | 668 | 2.8247765 |
| 603 | 2.7803173 | 636 | 2.8034571 | 669 | 2.8254261 |
| 604 | 2.7810369 | 637 | 2.8041394 | 670 | 2.8260748 |
| 605 | 2.7817554 | 638 | 2.8048207 | 671 | 2.8267225 |
| 606 | 2.7824726 | 639 | 2.8055009 | 672 | 2.8273693 |
| 607 | 2.7831887 | 640 | 2.8061800 | 673 | 2.8280151 |
| 608 | 2.7839036 | 641 | 2.8068580 | 674 | 2.8286599 |
| 609 | 2.7846173 | 642 | 2.8075350 | 675 | 2.8293038 |
| 610 | 2.7853298 | 643 | 2.8082110 | 676 | 2.8299467 |
| 611 | 2.7860412 | 644 | 2.8088859 | 677 | 2.8305887 |
| 612 | 2.7867514 | 645 | 2.8095597 | 678 | 2.8312297 |
| 613 | 2.7874605 | 646 | 2.8102325 | 679 | 2.8318698 |
| 614 | 2.7881684 | 647 | 2.8109043 | 680 | 2.8325089 |
| 615 | 2.7888751 | 648 | 2.8115750 | 681 | 2.8331471 |
| 616 | 2.7895807 | 649 | 2.8122447 | 682 | 2.8337844 |
| 617 | 2.7902852 | 650 | 2.8129134 | 683 | 2.8344207 |
| 618 | 2.7909885 | 651 | 2.8135810 | 684 | 2.8350561 |
| 619 | 2.7916906 | 652 | 2.8142476 | 685 | 2.8356906 |
| 620 | 2.7923917 | 653 | 2.8149132 | 686 | 2.8363241 |
| 621 | 2.7930916 | 654 | 2.8155777 | 687 | 2.8369567 |
| 622 | 2.7937904 | 655 | 2.8162413 | 688 | 2.8375884 |
| 623 | 2.7944880 | 656 | 2.8169038 | 689 | 2.8382192 |
| 624 | 2.7951846 | 657 | 2.8175654 | 690 | 2.8388491 |
| 625 | 2.7958800 | 658 | 2.8182259 | 691 | 2.8394780 |
| 626 | 2.7965743 | 659 | 2.8188854 | 692 | 2.8401061 |
| 627 | 2.7972675 | 660 | 2.8195439 | 693 | 2.8407332 |
| 628 | 2.7979596 | 661 | 2.8202015 | 694 | 2.8413595 |
| 629 | 2.7986506 | 662 | 2.8208580 | 695 | 2.8419848 |
| 630 | 2.7993405 | 663 | 2.8215135 | 696 | 2.8426092 |
| 631 | 2.8000294 | 664 | 2.8221681 | 697 | 2.8432328 |
| 632 | 2.8007171 | 665 | 2.8228216 | 698 | 2.8438554 |
| 633 | 2.8014037 | 666 | 2.8234742 | 699 | 2.8444772 |
| 634 | 2.8020893 | 667 | 2.8241258 | 700 | 2.8450980 |



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 701 | 2.8457180 | 734 | 2.8656961 | 767 | 2.8847954 |
| 702 | 2.8463371 | 735 | 2.8662873 | 768 | 2.8853612 |
| 703 | 2.8469553 | 736 | 2.8668778 | 769 | 2.8859263 |
| 704 | 2.8475727 | 737 | 2.8674675 | 770 | 2.8864907 |
| 705 | 2.8481891 | 738 | 2.8680564 | 771 | 2.8870544 |
| 706 | 2.8488047 | 739 | 2.8686444 | 772 | 2.8876173 |
| 707 | 2.8494194 | 740 | 2.8692317 | 773 | 2.8881795 |
| 708 | 2.8500333 | 741 | 2.8698182 | 774 | 2.8887410 |
| 709 | 2.8506462 | 742 | 2.8704039 | 775 | 2.8893017 |
| 710 | 2.8512583 | 743 | 2.8709888 | 776 | 2.8898617 |
| 711 | 2.8518696 | 744 | 2.8715729 | 777 | 2.8904210 |
| 712 | 2.8524800 | 745 | 2.8721563 | 778 | 2.8909796 |
| 713 | 2.8530895 | 746 | 2.8727388 | 779 | 2.8915375 |
| 714 | 2.8536982 | 747 | 2.8733206 | 780 | 2.8920946 |
| 715 | 2.8543060 | 748 | 2.8739016 | 781 | 2.8926510 |
| 716 | 2.8549130 | 749 | 2.8744818 | 782 | 2.8932068 |
| 717 | 2.8555192 | 750 | 2.8750613 | 783 | 2.8937618 |
| 718 | 2.8561244 | 751 | 2.8756399 | 784 | 2.8943161 |
| 719 | 2.8567289 | 752 | 2.8762178 | 785 | 2.8948696 |
| 720 | 2.8573325 | 753 | 2.8767950 | 786 | 2.8954225 |
| 721 | 2.8579353 | 754 | 2.8773713 | 787 | 2.8959747 |
| 722 | 2.8585372 | 755 | 2.8779469 | 788 | 2.8965262 |
| 723 | 2.8591383 | 756 | 2.8785218 | 789 | 2.8970770 |
| 724 | 2.8597386 | 757 | 2.8790959 | 790 | 2.8976271 |
| 725 | 2.8603380 | 758 | 2.8796692 | 791 | 2.8981765 |
| 726 | 2.8609366 | 759 | 2.8802418 | 792 | 2.8987252 |
| 727 | 2.8615344 | 760 | 2.8808136 | 793 | 2.8992732 |
| 728 | 2.8621314 | 761 | 2.8813847 | 794 | 2.8998205 |
| 729 | 2.8627275 | 762 | 2.8819550 | 795 | 2.9003671 |
| 730 | 2.8633229 | 763 | 2.8825245 | 796 | 2.9009131 |
| 731 | 2.8639174 | 764 | 2.8830934 | 797 | 2.9014583 |
| 732 | 2.8645111 | 765 | 2.8836614 | 798 | 2.9020029 |
| 733 | 2.8651040 | 766 | 2.8842288 | 799 | 2.9025468 |
| 734 | 2.8656961 | 767 | 2.8847954 | 800 | 2.9030900 |



| N.  | Logarith. | N.  | Logarith. | N.  | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 801 | 2.9036325 | 834 | 2.9211660 | 867 | 2.9380191 |
| 802 | 2.9041744 | 835 | 2.9216865 | 868 | 2.9385197 |
| 803 | 2.9047155 | 836 | 2.9222063 | 869 | 2.9390198 |
| 804 | 2.9052560 | 837 | 2.9227255 | 870 | 2.9395192 |
| 805 | 2.9057959 | 838 | 2.9232440 | 871 | 2.9400182 |
| 806 | 2.9063350 | 839 | 2.9237620 | 872 | 2.9405165 |
| 807 | 2.9068735 | 840 | 2.9242793 | 873 | 2.9410142 |
| 808 | 2.9074114 | 841 | 2.9247960 | 874 | 2.9415114 |
| 809 | 2.9079485 | 842 | 2.9253121 | 875 | 2.9420081 |
| 810 | 2.9084850 | 843 | 2.9258276 | 876 | 2.9425041 |
| 811 | 2.9090208 | 844 | 2.9263424 | 877 | 2.9429996 |
| 812 | 2.9095560 | 845 | 2.9268567 | 878 | 2.9434945 |
| 813 | 2.9100905 | 846 | 2.9273704 | 879 | 2.9439889 |
| 814 | 2.9106244 | 847 | 2.9278834 | 880 | 2.9444827 |
| 815 | 2.9111576 | 848 | 2.9283959 | 881 | 2.9449759 |
| 816 | 2.9116902 | 849 | 2.9289077 | 882 | 2.9454686 |
| 817 | 2.9122221 | 850 | 2.9294189 | 883 | 2.9459607 |
| 818 | 2.9127533 | 851 | 2.9299296 | 884 | 2.9464523 |
| 819 | 2.9132839 | 852 | 2.9304396 | 885 | 2.9469433 |
| 820 | 2.9138139 | 853 | 2.9309490 | 886 | 2.9474337 |
| 821 | 2.9143432 | 854 | 2.9314579 | 887 | 2.9479236 |
| 822 | 2.9148718 | 855 | 2.9319661 | 888 | 2.9484130 |
| 823 | 2.9153998 | 856 | 2.9324738 | 889 | 2.9489018 |
| 824 | 2.9159272 | 857 | 2.9329808 | 890 | 2.9493900 |
| 825 | 2.9164539 | 858 | 2.9334873 | 891 | 2.9498777 |
| 826 | 2.9169800 | 859 | 2.9339932 | 892 | 2.9503648 |
| 827 | 2.9175055 | 860 | 2.9344984 | 893 | 2.9508515 |
| 828 | 2.9180303 | 861 | 2.9350031 | 894 | 2.9513375 |
| 829 | 2.9185545 | 862 | 2.9355073 | 895 | 2.9518230 |
| 830 | 2.9190781 | 863 | 2.9360108 | 896 | 2.9523080 |
| 831 | 2.9196010 | 864 | 2.9365137 | 897 | 2.9527924 |
| 832 | 2.9201233 | 865 | 2.9370161 | 898 | 2.9532763 |
| 833 | 2.9206450 | 866 | 2.9375179 | 899 | 2.9537597 |
| 834 | 2.9211660 | 867 | 2.9380191 | 900 | 2.9542425 |



| N.  | Logarith. | N.  | Logarith. | N.   | Logarith. |
|-----|-----------|-----|-----------|------|-----------|
| 901 | 2.9547248 | 934 | 2.9703469 | 967  | 2.9854265 |
| 902 | 2.9552065 | 935 | 2.9708116 | 968  | 2.9858753 |
| 903 | 2.9556877 | 936 | 2.9712758 | 969  | 2.9863238 |
| 904 | 2.9561684 | 937 | 2.9717396 | 970  | 2.9867717 |
| 905 | 2.9566486 | 938 | 2.9722028 | 971  | 2.9872192 |
| 906 | 2.9571282 | 939 | 2.9726656 | 972  | 2.9876663 |
| 907 | 2.9576073 | 940 | 2.9731279 | 973  | 2.9881128 |
| 908 | 2.9580858 | 941 | 2.9735896 | 974  | 2.9885590 |
| 909 | 2.9585639 | 942 | 2.9740509 | 975  | 2.9890046 |
| 910 | 2.9590414 | 943 | 2.9745117 | 976  | 2.9894498 |
| 911 | 2.9595184 | 944 | 2.9749720 | 977  | 2.9898946 |
| 912 | 2.9599948 | 945 | 2.9754318 | 978  | 2.9903389 |
| 913 | 2.9604708 | 946 | 2.9758911 | 979  | 2.9907827 |
| 914 | 2.9609462 | 947 | 2.9763500 | 980  | 2.9912261 |
| 915 | 2.9614211 | 948 | 2.9768083 | 981  | 2.9916690 |
| 916 | 2.9618955 | 949 | 2.9772662 | 982  | 2.9921115 |
| 917 | 2.9623693 | 950 | 2.9777236 | 983  | 2.9925535 |
| 918 | 2.9628427 | 951 | 2.9781805 | 984  | 2.9929951 |
| 919 | 2.9633155 | 952 | 2.9786369 | 985  | 2.9934362 |
| 920 | 2.9637878 | 953 | 2.9790929 | 986  | 2.9938769 |
| 921 | 2.9642596 | 954 | 2.9795484 | 987  | 2.9943172 |
| 922 | 2.9647309 | 955 | 2.9800034 | 988  | 2.9947569 |
| 923 | 2.9652017 | 956 | 2.9804579 | 989  | 2.9951963 |
| 924 | 2.9656720 | 957 | 2.9809119 | 990  | 2.9956352 |
| 925 | 2.9661417 | 958 | 2.9813655 | 991  | 2.9960737 |
| 926 | 2.9666110 | 959 | 2.9818186 | 992  | 2.9965117 |
| 927 | 2.9670797 | 960 | 2.9822712 | 993  | 2.9969492 |
| 928 | 2.9675480 | 961 | 2.9827234 | 994  | 2.9973864 |
| 929 | 2.9680157 | 962 | 2.9831751 | 995  | 2.9978231 |
| 930 | 2.9684829 | 963 | 2.9836263 | 996  | 2.9982593 |
| 931 | 2.9689497 | 964 | 2.9840770 | 997  | 2.9986952 |
| 932 | 2.9694159 | 965 | 2.9845273 | 998  | 2.9991305 |
| 933 | 2.9698816 | 966 | 2.9849771 | 999  | 2.9995655 |
| 934 | 2.9703469 | 967 | 2.9854265 | 1000 | 3.0000000 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1001 | 3.0004341 | 1034 | 3.0145205 | 1067 | 3.0281644 |
| 1002 | 3.0008677 | 1035 | 3.0149403 | 1068 | 3.0285712 |
| 1003 | 3.0013009 | 1036 | 3.0153598 | 1069 | 3.0289777 |
| 1004 | 3.0017337 | 1037 | 3.0157788 | 1070 | 3.0293838 |
| 1005 | 3.0021661 | 1038 | 3.0161974 | 1071 | 3.0297895 |
| 1006 | 3.0025980 | 1039 | 3.0166155 | 1072 | 3.0301948 |
| 1007 | 3.0030295 | 1040 | 3.0170333 | 1073 | 3.0305997 |
| 1008 | 3.0034605 | 1041 | 3.0174507 | 1074 | 3.0310043 |
| 1009 | 3.0038912 | 1042 | 3.0178677 | 1075 | 3.0314085 |
| 1010 | 3.0043214 | 1043 | 3.0182843 | 1076 | 3.0318123 |
| 1011 | 3.0047512 | 1044 | 3.0187005 | 1077 | 3.0322157 |
| 1012 | 3.0051805 | 1045 | 3.0191163 | 1078 | 3.0326188 |
| 1013 | 3.0056094 | 1046 | 3.0195317 | 1079 | 3.0330214 |
| 1014 | 3.0060380 | 1047 | 3.0199467 | 1080 | 3.0334238 |
| 1015 | 3.0064660 | 1048 | 3.0203613 | 1081 | 3.0338257 |
| 1016 | 3.0068937 | 1049 | 3.0207755 | 1082 | 3.0342273 |
| 1017 | 3.0073209 | 1050 | 3.0211893 | 1083 | 3.0346285 |
| 1018 | 3.0077478 | 1051 | 3.0216027 | 1084 | 3.0350293 |
| 1019 | 3.0081742 | 1052 | 3.0220157 | 1085 | 3.0354297 |
| 1020 | 3.0086002 | 1053 | 3.0224284 | 1086 | 3.0358298 |
| 1021 | 3.0090257 | 1054 | 3.0228406 | 1087 | 3.0362295 |
| 1022 | 3.0094509 | 1055 | 3.0232525 | 1088 | 3.0366289 |
| 1023 | 3.0098756 | 1056 | 3.0236639 | 1089 | 3.0370279 |
| 1024 | 3.0103000 | 1057 | 3.0240750 | 1090 | 3.0374265 |
| 1025 | 3.0107239 | 1058 | 3.0244857 | 1091 | 3.0378247 |
| 1026 | 3.0111474 | 1059 | 3.0248960 | 1092 | 3.0382226 |
| 1027 | 3.0115704 | 1060 | 3.0253059 | 1093 | 3.0386202 |
| 1028 | 3.0119931 | 1061 | 3.0257154 | 1094 | 3.0390173 |
| 1029 | 3.0124154 | 1062 | 3.0261245 | 1095 | 3.0394141 |
| 1030 | 3.0128372 | 1063 | 3.0265333 | 1096 | 3.0398106 |
| 1031 | 3.0132587 | 1064 | 3.0269416 | 1097 | 3.0402066 |
| 1032 | 3.0136797 | 1065 | 3.0273496 | 1098 | 3.0406023 |
| 1033 | 3.0141003 | 1066 | 3.0277572 | 1099 | 3.0409977 |
| 1034 | 3.0145205 | 1067 | 3.0281644 | 1100 | 3.0413927 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1101 | 3.0417873 | 1134 | 3.0546131 | 1167 | 3.0670709 |
| 1102 | 3.0421816 | 1135 | 3.0549959 | 1168 | 3.0674428 |
| 1103 | 3.0425755 | 1136 | 3.0553783 | 1169 | 3.0678145 |
| 1104 | 3.0429691 | 1137 | 3.0557605 | 1170 | 3.0681859 |
| 1105 | 3.0433623 | 1138 | 3.0561423 | 1171 | 3.0685569 |
| 1106 | 3.0437551 | 1139 | 3.0565237 | 1172 | 3.0689276 |
| 1107 | 3.0441476 | 1140 | 3.0569048 | 1173 | 3.0692980 |
| 1108 | 3.0445398 | 1141 | 3.0572856 | 1174 | 3.0696681 |
| 1109 | 3.0449315 | 1142 | 3.0576661 | 1175 | 3.0700379 |
| 1110 | 3.0453230 | 1143 | 3.0580462 | 1176 | 3.0704073 |
| 1111 | 3.0457141 | 1144 | 3.0584260 | 1177 | 3.0707765 |
| 1112 | 3.0461048 | 1145 | 3.0588055 | 1178 | 3.0711453 |
| 1113 | 3.0464952 | 1146 | 3.0591846 | 1179 | 3.0715138 |
| 1114 | 3.0468852 | 1147 | 3.0595634 | 1180 | 3.0718820 |
| 1115 | 3.0472749 | 1148 | 3.0599419 | 1181 | 3.0722499 |
| 1116 | 3.0476642 | 1149 | 3.0603200 | 1182 | 3.0726175 |
| 1117 | 3.0480532 | 1150 | 3.0606978 | 1183 | 3.0729847 |
| 1118 | 3.0484418 | 1151 | 3.0610753 | 1184 | 3.0733517 |
| 1119 | 3.0488301 | 1152 | 3.0614525 | 1185 | 3.0737183 |
| 1120 | 3.0492180 | 1153 | 3.0618293 | 1186 | 3.0740847 |
| 1121 | 3.0496056 | 1154 | 3.0622058 | 1187 | 3.0744507 |
| 1122 | 3.0499929 | 1155 | 3.0625820 | 1188 | 3.0748164 |
| 1123 | 3.0503798 | 1156 | 3.0629578 | 1189 | 3.0751818 |
| 1124 | 3.0507663 | 1157 | 3.0633334 | 1190 | 3.0755470 |
| 1125 | 3.0511525 | 1158 | 3.0637086 | 1191 | 3.0759118 |
| 1126 | 3.0515384 | 1159 | 3.0640834 | 1192 | 3.0762763 |
| 1127 | 3.0519239 | 1160 | 3.0644580 | 1193 | 3.0766404 |
| 1128 | 3.0523091 | 1161 | 3.0648322 | 1194 | 3.0770043 |
| 1129 | 3.0526939 | 1162 | 3.0652061 | 1195 | 3.0773679 |
| 1130 | 3.0530784 | 1163 | 3.0655797 | 1196 | 3.0777312 |
| 1131 | 3.0534626 | 1164 | 3.0659530 | 1197 | 3.0780941 |
| 1132 | 3.0538464 | 1165 | 3.0663259 | 1198 | 3.0784568 |
| 1133 | 3.0542299 | 1166 | 3.0666986 | 1199 | 3.0788192 |
| 1134 | 3.0546131 | 1167 | 3.0670709 | 1200 | 3.0791812 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1201 | 3.0795430 | 1234 | 3.0913152 | 1267 | 3.1027766 |
| 1202 | 3.0799045 | 1235 | 3.0916670 | 1268 | 3.1031192 |
| 1203 | 3.0802656 | 1236 | 3.0920185 | 1269 | 3.1034616 |
| 1204 | 3.0806265 | 1237 | 3.0923697 | 1270 | 3.1038037 |
| 1205 | 3.0809870 | 1238 | 3.0927206 | 1271 | 3.1041456 |
| 1206 | 3.0813473 | 1239 | 3.0930713 | 1272 | 3.1044871 |
| 1207 | 3.0817073 | 1240 | 3.0934217 | 1273 | 3.1048284 |
| 1208 | 3.0820569 | 1241 | 3.0937718 | 1274 | 3.1051694 |
| 1209 | 3.0824263 | 1242 | 3.0941216 | 1275 | 3.1055102 |
| 1210 | 3.0827854 | 1243 | 3.0944711 | 1276 | 3.1058507 |
| 1211 | 3.0831441 | 1244 | 3.0948204 | 1277 | 3.1061909 |
| 1212 | 3.0835026 | 1245 | 3.0951693 | 1278 | 3.1065309 |
| 1213 | 3.0838608 | 1246 | 3.0955180 | 1279 | 3.1068705 |
| 1214 | 3.0842187 | 1247 | 3.0958664 | 1280 | 3.1072100 |
| 1215 | 3.0845763 | 1248 | 3.0962146 | 1281 | 3.1075491 |
| 1216 | 3.0849336 | 1249 | 3.0965624 | 1282 | 3.1078880 |
| 1217 | 3.0852906 | 1250 | 3.0969100 | 1283 | 3.1082266 |
| 1218 | 3.0856473 | 1251 | 3.0972573 | 1284 | 3.1085650 |
| 1219 | 3.0860037 | 1252 | 3.0976043 | 1285 | 3.1089031 |
| 1220 | 3.0863598 | 1253 | 3.0979511 | 1286 | 3.1092410 |
| 1221 | 3.0867157 | 1254 | 3.0982975 | 1287 | 3.1095785 |
| 1222 | 3.0870712 | 1255 | 3.0986437 | 1288 | 3.1099159 |
| 1223 | 3.0874264 | 1256 | 3.0989896 | 1289 | 3.1102529 |
| 1224 | 3.0877814 | 1257 | 3.0993353 | 1290 | 3.1105897 |
| 1225 | 3.0881361 | 1258 | 3.0996806 | 1291 | 3.1109262 |
| 1226 | 3.0884905 | 1259 | 3.1000257 | 1292 | 3.1112625 |
| 1227 | 3.0888446 | 1260 | 3.1003705 | 1293 | 3.1115985 |
| 1228 | 3.0891984 | 1261 | 3.1007151 | 1294 | 3.1119343 |
| 1229 | 3.0895519 | 1262 | 3.1010594 | 1295 | 3.1122698 |
| 1230 | 3.0899051 | 1263 | 3.1014033 | 1296 | 3.1126050 |
| 1231 | 3.0902580 | 1264 | 3.1017471 | 1297 | 3.1129400 |
| 1232 | 3.0906107 | 1265 | 3.1020905 | 1298 | 3.1132746 |
| 1233 | 3.0909631 | 1266 | 3.1024337 | 1299 | 3.1136091 |
| 1234 | 3.0913152 | 1267 | 3.1027766 | 1300 | 3.1139433 |

N. 107.

1300

1381 1  
1381 1



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1301 | 3.1142773 | 1334 | 3.1251558 | 1367 | 3.1357685 |
| 1302 | 3.1146110 | 1335 | 3.1254813 | 1368 | 3.1360861 |
| 1303 | 3.1149444 | 1336 | 3.1258065 | 1369 | 3.1364034 |
| 1304 | 3.1152776 | 1337 | 3.1261314 | 1370 | 3.1367206 |
| 1305 | 3.1156105 | 1338 | 3.1264561 | 1371 | 3.1370375 |
| 1306 | 3.1159432 | 1339 | 3.1267806 | 1372 | 3.1373541 |
| 1307 | 3.1162756 | 1340 | 3.1271048 | 1373 | 3.1376705 |
| 1308 | 3.1166077 | 1341 | 3.1274288 | 1374 | 3.1379867 |
| 1309 | 3.1169396 | 1342 | 3.1277525 | 1375 | 3.1383027 |
| 1310 | 3.1172713 | 1343 | 3.1280760 | 1376 | 3.1386184 |
| 1311 | 3.1176027 | 1344 | 3.1283993 | 1377 | 3.1389339 |
| 1312 | 3.1179338 | 1345 | 3.1287223 | 1378 | 3.1392492 |
| 1313 | 3.1182647 | 1346 | 3.1290451 | 1379 | 3.1395643 |
| 1314 | 3.1185954 | 1347 | 3.1293676 | 1380 | 3.1398791 |
| 1315 | 3.1189257 | 1348 | 3.1296899 | 1381 | 3.1401937 |
| 1316 | 3.1192559 | 1349 | 3.1300119 | 1382 | 3.1405080 |
| 1317 | 3.1195858 | 1350 | 3.1303338 | 1383 | 3.1408222 |
| 1318 | 3.1199154 | 1351 | 3.1306553 | 1384 | 3.1411361 |
| 1319 | 3.1202448 | 1352 | 3.1309767 | 1385 | 3.1414498 |
| 1320 | 3.1205739 | 1353 | 3.1312978 | 1386 | 3.1417632 |
| 1321 | 3.1209023 | 1354 | 3.1316187 | 1387 | 3.1420765 |
| 1322 | 3.1212315 | 1355 | 3.1319393 | 1388 | 3.1423895 |
| 1323 | 3.1215598 | 1356 | 3.1322597 | 1389 | 3.1427022 |
| 1324 | 3.1218880 | 1357 | 3.1325798 | 1390 | 3.1430148 |
| 1325 | 3.1222159 | 1358 | 3.1328998 | 1391 | 3.1433271 |
| 1326 | 3.1225435 | 1359 | 3.1332195 | 1392 | 3.1436392 |
| 1327 | 3.1228709 | 1360 | 3.1335389 | 1393 | 3.1439511 |
| 1328 | 3.1231981 | 1361 | 3.1338581 | 1394 | 3.1442628 |
| 1329 | 3.1235250 | 1362 | 3.1341771 | 1395 | 3.1445742 |
| 1330 | 3.1238516 | 1363 | 3.1344959 | 1396 | 3.1448854 |
| 1331 | 3.1241781 | 1364 | 3.1348144 | 1397 | 3.1451964 |
| 1332 | 3.1245042 | 1365 | 3.1351326 | 1398 | 3.1455072 |
| 1333 | 3.1248301 | 1366 | 3.1354507 | 1399 | 3.1458177 |
| 1334 | 3.1251558 | 1367 | 3.1357685 | 1400 | 3.1461280 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1401 | 3.1464381 | 1434 | 3.1565491 | 1467 | 3.1664301 |
| 1402 | 3.1467480 | 1435 | 3.1568519 | 1468 | 3.1667261 |
| 1403 | 3.1470577 | 1436 | 3.1571544 | 1469 | 3.1670218 |
| 1404 | 3.1473671 | 1437 | 3.1574568 | 1470 | 3.1673173 |
| 1405 | 3.1476763 | 1438 | 3.1577589 | 1471 | 3.1676127 |
| 1406 | 3.1479853 | 1439 | 3.1580608 | 1472 | 3.1679078 |
| 1407 | 3.1482941 | 1440 | 3.1583625 | 1473 | 3.1682027 |
| 1408 | 3.1486027 | 1441 | 3.1586640 | 1474 | 3.1684975 |
| 1409 | 3.1489110 | 1442 | 3.1589653 | 1475 | 3.1687920 |
| 1410 | 3.1492191 | 1443 | 3.1592663 | 1476 | 3.1690864 |
| 1411 | 3.1495270 | 1444 | 3.1595672 | 1477 | 3.1693805 |
| 1412 | 3.1498347 | 1445 | 3.1598678 | 1478 | 3.1696744 |
| 1413 | 3.1501422 | 1446 | 3.1601683 | 1479 | 3.1699682 |
| 1414 | 3.1504494 | 1447 | 3.1604685 | 1480 | 3.1702617 |
| 1415 | 3.1507564 | 1448 | 3.1607686 | 1481 | 3.1705551 |
| 1416 | 3.1510633 | 1449 | 3.1610684 | 1482 | 3.1708482 |
| 1417 | 3.1513698 | 1450 | 3.1613680 | 1483 | 3.1711412 |
| 1418 | 3.1516762 | 1451 | 3.1616674 | 1484 | 3.1714339 |
| 1419 | 3.1519824 | 1452 | 3.1619666 | 1485 | 3.1717265 |
| 1420 | 3.1522883 | 1453 | 3.1622656 | 1486 | 3.1720188 |
| 1421 | 3.1525941 | 1454 | 3.1625644 | 1487 | 3.1723110 |
| 1422 | 3.1528996 | 1455 | 3.1628630 | 1488 | 3.1726029 |
| 1423 | 3.1532049 | 1456 | 3.1631614 | 1489 | 3.1728947 |
| 1424 | 3.1535100 | 1457 | 3.1634596 | 1490 | 3.1731863 |
| 1425 | 3.1538149 | 1458 | 3.1637575 | 1491 | 3.1734776 |
| 1426 | 3.1541195 | 1459 | 3.1640553 | 1492 | 3.1737688 |
| 1427 | 3.1544240 | 1460 | 3.1643529 | 1493 | 3.1740598 |
| 1428 | 3.1547282 | 1461 | 3.1646502 | 1494 | 3.1743506 |
| 1429 | 3.1550322 | 1462 | 3.1649474 | 1495 | 3.1746412 |
| 1430 | 3.1553360 | 1463 | 3.1652443 | 1496 | 3.1749316 |
| 1431 | 3.1556396 | 1464 | 3.1655411 | 1497 | 3.1752218 |
| 1432 | 3.1559430 | 1465 | 3.1658376 | 1498 | 3.1755118 |
| 1433 | 3.1562462 | 1466 | 3.1661340 | 1499 | 3.1758016 |
| 1434 | 3.1565491 | 1467 | 3.1664301 | 1500 | 3.1760913 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1501 | 3.1763807 | 1534 | 3.1858254 | 1567 | 3.1950690 |
| 1502 | 3.1766699 | 1535 | 3.1861084 | 1568 | 3.1953461 |
| 1503 | 3.1769590 | 1536 | 3.1863912 | 1569 | 3.1956229 |
| 1504 | 3.1772478 | 1537 | 3.1866739 | 1570 | 3.1958997 |
| 1505 | 3.1775365 | 1538 | 3.1869563 | 1571 | 3.1961762 |
| 1506 | 3.1778250 | 1539 | 3.1872386 | 1572 | 3.1964525 |
| 1507 | 3.1781133 | 1540 | 3.1875207 | 1573 | 3.1967287 |
| 1508 | 3.1784013 | 1541 | 3.1878026 | 1574 | 3.1970047 |
| 1509 | 3.1786892 | 1542 | 3.1880844 | 1575 | 3.1972806 |
| 1510 | 3.1789769 | 1543 | 3.1883659 | 1576 | 3.1975562 |
| 1511 | 3.1792645 | 1544 | 3.1886473 | 1577 | 3.1978317 |
| 1512 | 3.1795518 | 1545 | 3.1889285 | 1578 | 3.1981070 |
| 1513 | 3.1798389 | 1546 | 3.1892095 | 1579 | 3.1983821 |
| 1514 | 3.1801259 | 1547 | 3.1894903 | 1580 | 3.1986571 |
| 1515 | 3.1804126 | 1548 | 3.1897710 | 1581 | 3.1989319 |
| 1516 | 3.1806992 | 1549 | 3.1900514 | 1582 | 3.1992065 |
| 1517 | 3.1809856 | 1550 | 3.1903317 | 1583 | 3.1994809 |
| 1518 | 3.1812718 | 1551 | 3.1906118 | 1584 | 3.1997552 |
| 1519 | 3.1815578 | 1552 | 3.1908917 | 1585 | 3.2000293 |
| 1520 | 3.1818436 | 1553 | 3.1911715 | 1586 | 3.2003032 |
| 1521 | 3.1821292 | 1554 | 3.1914510 | 1587 | 3.2005769 |
| 1522 | 3.1824146 | 1555 | 3.1917304 | 1588 | 3.2008505 |
| 1523 | 3.1826999 | 1556 | 3.1920096 | 1589 | 3.2011239 |
| 1524 | 3.1829850 | 1557 | 3.1922886 | 1590 | 3.2013971 |
| 1525 | 3.1832698 | 1558 | 3.1925674 | 1591 | 3.2016702 |
| 1526 | 3.1835545 | 1559 | 3.1928461 | 1592 | 3.2019431 |
| 1527 | 3.1838390 | 1560 | 3.1931246 | 1593 | 3.2022158 |
| 1528 | 3.1841234 | 1561 | 3.1934029 | 1594 | 3.2024883 |
| 1529 | 3.1844075 | 1562 | 3.1936810 | 1595 | 3.2027607 |
| 1530 | 3.1846914 | 1563 | 3.1939590 | 1596 | 3.2030329 |
| 1531 | 3.1849752 | 1564 | 3.1942367 | 1597 | 3.2033049 |
| 1532 | 3.1852588 | 1565 | 3.1945143 | 1598 | 3.2035768 |
| 1533 | 3.1855421 | 1566 | 3.1947918 | 1599 | 3.2038485 |
| 1534 | 3.1858254 | 1567 | 3.1950690 | 1600 | 3.2041200 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1601 | 3.2043913 | 1634 | 3.2132521 | 1667 | 3.2219356 |
| 1602 | 3.2046625 | 1635 | 3.2135178 | 1668 | 3.2221960 |
| 1603 | 3.2049335 | 1636 | 3.2137833 | 1669 | 3.2224563 |
| 1604 | 3.2052044 | 1637 | 3.2140487 | 1670 | 3.2227165 |
| 1605 | 3.2054750 | 1638 | 3.2143139 | 1671 | 3.2229764 |
| 1606 | 3.2057455 | 1639 | 3.2145790 | 1672 | 3.2232363 |
| 1607 | 3.2060159 | 1640 | 3.2148438 | 1673 | 3.2234959 |
| 1608 | 3.2062860 | 1641 | 3.2151086 | 1674 | 3.2237555 |
| 1609 | 3.2065560 | 1642 | 3.2153732 | 1675 | 3.2240148 |
| 1610 | 3.2068259 | 1643 | 3.2156376 | 1676 | 3.2242740 |
| 1611 | 3.2070955 | 1644 | 3.2159018 | 1677 | 3.2245331 |
| 1612 | 3.2073650 | 1645 | 3.2161659 | 1678 | 3.2247920 |
| 1613 | 3.2076344 | 1646 | 3.2164298 | 1679 | 3.2250507 |
| 1614 | 3.2079035 | 1647 | 3.2166936 | 1680 | 3.2253093 |
| 1615 | 3.2081725 | 1648 | 3.2169572 | 1681 | 3.2255677 |
| 1616 | 3.2084414 | 1649 | 3.2172207 | 1682 | 3.2258260 |
| 1617 | 3.2087100 | 1650 | 3.2174839 | 1683 | 3.2260841 |
| 1618 | 3.2089785 | 1651 | 3.2177471 | 1684 | 3.2263421 |
| 1619 | 3.2092468 | 1652 | 3.2180100 | 1685 | 3.2265999 |
| 1620 | 3.2095150 | 1653 | 3.2182729 | 1686 | 3.2268576 |
| 1621 | 3.2097830 | 1654 | 3.2185355 | 1687 | 3.2271151 |
| 1622 | 3.2100508 | 1655 | 3.2187980 | 1688 | 3.2273724 |
| 1623 | 3.2103185 | 1656 | 3.2190603 | 1689 | 3.2276296 |
| 1624 | 3.2105860 | 1657 | 3.2193225 | 1690 | 3.2278867 |
| 1625 | 3.2108534 | 1658 | 3.2195845 | 1691 | 3.2281436 |
| 1626 | 3.2111205 | 1659 | 3.2198464 | 1692 | 3.2284004 |
| 1627 | 3.2113876 | 1660 | 3.2201081 | 1693 | 3.2286570 |
| 1628 | 3.2116544 | 1661 | 3.2203696 | 1694 | 3.2289134 |
| 1629 | 3.2119211 | 1662 | 3.2206310 | 1695 | 3.2291697 |
| 1630 | 3.2121876 | 1663 | 3.2208922 | 1696 | 3.2294258 |
| 1631 | 3.2124540 | 1664 | 3.2211533 | 1697 | 3.2296818 |
| 1632 | 3.2127201 | 1665 | 3.2214142 | 1698 | 3.2299377 |
| 1633 | 3.2129862 | 1666 | 3.2216750 | 1699 | 3.2301934 |
| 1634 | 3.2132521 | 1667 | 3.2219356 | 1700 | 3.2304489 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1701 | 3.2307043 | 1734 | 3.2390491 | 1767 | 3.2472365 |
| 1702 | 3.2309596 | 1735 | 3.2392995 | 1768 | 3.2474823 |
| 1703 | 3.2312146 | 1736 | 3.2395497 | 1769 | 3.2477278 |
| 1704 | 3.2314696 | 1737 | 3.2397998 | 1770 | 3.2479733 |
| 1705 | 3.2317244 | 1738 | 3.2400498 | 1771 | 3.2482186 |
| 1706 | 3.2319790 | 1739 | 3.2402996 | 1772 | 3.2484637 |
| 1707 | 3.2322335 | 1740 | 3.2405492 | 1773 | 3.2487087 |
| 1708 | 3.2324879 | 1741 | 3.2407988 | 1774 | 3.2489536 |
| 1709 | 3.2327421 | 1742 | 3.2410481 | 1775 | 3.2491984 |
| 1710 | 3.2329961 | 1743 | 3.2412974 | 1776 | 3.2494430 |
| 1711 | 3.2332500 | 1744 | 3.2415465 | 1777 | 3.2496874 |
| 1712 | 3.2335038 | 1745 | 3.2417954 | 1778 | 3.2499318 |
| 1713 | 3.2337574 | 1746 | 3.2420442 | 1779 | 3.2501759 |
| 1714 | 3.2340108 | 1747 | 3.2422929 | 1780 | 3.2504200 |
| 1715 | 3.2342641 | 1748 | 3.2425414 | 1781 | 3.2506639 |
| 1716 | 3.2345173 | 1749 | 3.2427898 | 1782 | 3.2509077 |
| 1717 | 3.2347703 | 1750 | 3.2430380 | 1783 | 3.2511513 |
| 1718 | 3.2350232 | 1751 | 3.2432861 | 1784 | 3.2513949 |
| 1719 | 3.2352759 | 1752 | 3.2435341 | 1785 | 3.2516382 |
| 1720 | 3.2355284 | 1753 | 3.2437819 | 1786 | 3.2518815 |
| 1721 | 3.2357809 | 1754 | 3.2440296 | 1787 | 3.2521246 |
| 1722 | 3.2360331 | 1755 | 3.2442771 | 1788 | 3.2523675 |
| 1723 | 3.2362853 | 1756 | 3.2445245 | 1789 | 3.2526103 |
| 1724 | 3.2365373 | 1757 | 3.2447718 | 1790 | 3.2528530 |
| 1725 | 3.2367891 | 1758 | 3.2450189 | 1791 | 3.2530956 |
| 1726 | 3.2370408 | 1759 | 3.2452658 | 1792 | 3.2533380 |
| 1727 | 3.2372923 | 1760 | 3.2455127 | 1793 | 3.2535803 |
| 1728 | 3.2375437 | 1761 | 3.2457594 | 1794 | 3.2538224 |
| 1729 | 3.2377950 | 1762 | 3.2460059 | 1795 | 3.2540645 |
| 1730 | 3.2380461 | 1763 | 3.2462523 | 1796 | 3.2543063 |
| 1731 | 3.2382971 | 1764 | 3.2464986 | 1797 | 3.2545481 |
| 1732 | 3.2385479 | 1765 | 3.2467447 | 1798 | 3.2547897 |
| 1733 | 3.2387986 | 1766 | 3.2469907 | 1799 | 3.2550312 |
| 1734 | 3.2390491 | 1767 | 3.2472365 | 1800 | 3.2552725 |

1727 N. 112.

1800

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1727 1727

1727 1727



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1801 | 3.2555137 | 1834 | 3.2633993 | 1867 | 3.2711443 |
| 1802 | 3.2557548 | 1835 | 3.2636361 | 1868 | 3.2713769 |
| 1803 | 3.2559957 | 1836 | 3.2638727 | 1869 | 3.2716093 |
| 1804 | 3.2562365 | 1837 | 3.2641092 | 1870 | 3.2718416 |
| 1805 | 3.2564772 | 1838 | 3.2643455 | 1871 | 3.2720738 |
| 1806 | 3.2567177 | 1839 | 3.2645817 | 1872 | 3.2723058 |
| 1807 | 3.2569582 | 1840 | 3.2648178 | 1873 | 3.2725378 |
| 1808 | 3.2571984 | 1841 | 3.2650538 | 1874 | 3.2727696 |
| 1809 | 3.2574386 | 1842 | 3.2652896 | 1875 | 3.2730013 |
| 1810 | 3.2576786 | 1843 | 3.2655253 | 1876 | 3.2732328 |
| 1811 | 3.2579184 | 1844 | 3.2657609 | 1877 | 3.2734643 |
| 1812 | 3.2581582 | 1845 | 3.2659964 | 1878 | 3.2736956 |
| 1813 | 3.2583978 | 1846 | 3.2662317 | 1879 | 3.2739268 |
| 1814 | 3.2586373 | 1847 | 3.2664669 | 1880 | 3.2741578 |
| 1815 | 3.2588766 | 1848 | 3.2667020 | 1881 | 3.2743888 |
| 1816 | 3.2591158 | 1849 | 3.2669369 | 1882 | 3.2746196 |
| 1817 | 3.2593549 | 1850 | 3.2671717 | 1883 | 3.2748503 |
| 1818 | 3.2595939 | 1851 | 3.2674064 | 1884 | 3.2750809 |
| 1819 | 3.2598327 | 1852 | 3.2676410 | 1885 | 3.2753114 |
| 1820 | 3.2600714 | 1853 | 3.2678754 | 1886 | 3.2755417 |
| 1821 | 3.2603099 | 1854 | 3.2681097 | 1887 | 3.2757719 |
| 1822 | 3.2605484 | 1855 | 3.2683439 | 1888 | 3.2760020 |
| 1823 | 3.2607867 | 1856 | 3.2685780 | 1889 | 3.2762320 |
| 1824 | 3.2610248 | 1857 | 3.2688119 | 1890 | 3.2764618 |
| 1825 | 3.2612629 | 1858 | 3.2690457 | 1891 | 3.2766915 |
| 1826 | 3.2615008 | 1859 | 3.2692794 | 1892 | 3.2769211 |
| 1827 | 3.2617385 | 1860 | 3.2695129 | 1893 | 3.2771506 |
| 1828 | 3.2619762 | 1861 | 3.2697464 | 1894 | 3.2773800 |
| 1829 | 3.2622137 | 1862 | 3.2699797 | 1895 | 3.2776092 |
| 1830 | 3.2624511 | 1863 | 3.2702129 | 1896 | 3.2778383 |
| 1831 | 3.2626883 | 1864 | 3.2704459 | 1897 | 3.2780673 |
| 1832 | 3.2629255 | 1865 | 3.2706788 | 1898 | 3.2782962 |
| 1833 | 3.2631625 | 1866 | 3.2709116 | 1899 | 3.2785250 |
| 1834 | 3.2633993 | 1867 | 3.2711443 | 1900 | 3.2787536 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1901 | 3.2789821 | 1934 | 3.2864565 | 1967 | 3.2938044 |
| 1902 | 3.2792105 | 1935 | 3.2866810 | 1968 | 3.2940251 |
| 1903 | 3.2794388 | 1936 | 3.2869054 | 1969 | 3.2942457 |
| 1904 | 3.2796669 | 1937 | 3.2871296 | 1970 | 3.2944662 |
| 1905 | 3.2798950 | 1938 | 3.2873538 | 1971 | 3.2946866 |
| 1906 | 3.2801229 | 1939 | 3.2875778 | 1972 | 3.2949069 |
| 1907 | 3.2803507 | 1940 | 3.2878017 | 1973 | 3.2951271 |
| 1908 | 3.2805784 | 1941 | 3.2880255 | 1974 | 3.2953471 |
| 1909 | 3.2808059 | 1942 | 3.2882492 | 1975 | 3.2955671 |
| 1910 | 3.2810334 | 1943 | 3.2884728 | 1976 | 3.2957869 |
| 1911 | 3.2812607 | 1944 | 3.2886963 | 1977 | 3.2960067 |
| 1912 | 3.2814879 | 1945 | 3.2889196 | 1978 | 3.2962263 |
| 1913 | 3.2817150 | 1946 | 3.2891428 | 1979 | 3.2964458 |
| 1914 | 3.2819419 | 1947 | 3.2893659 | 1980 | 3.2966652 |
| 1915 | 3.2821688 | 1948 | 3.2895889 | 1981 | 3.2968845 |
| 1916 | 3.2823955 | 1949 | 3.2898118 | 1982 | 3.2971036 |
| 1917 | 3.2826221 | 1950 | 3.2900346 | 1983 | 3.2973227 |
| 1918 | 3.2828486 | 1951 | 3.2902573 | 1984 | 3.2975417 |
| 1919 | 3.2830750 | 1952 | 3.2904798 | 1985 | 3.2977605 |
| 1920 | 3.2833012 | 1953 | 3.2907022 | 1986 | 3.2979792 |
| 1921 | 3.2835274 | 1954 | 3.2909246 | 1987 | 3.2981979 |
| 1922 | 3.2837534 | 1955 | 3.2911468 | 1988 | 3.2984164 |
| 1923 | 3.2839793 | 1956 | 3.2913688 | 1989 | 3.2986348 |
| 1924 | 3.2842051 | 1957 | 3.2915908 | 1990 | 3.2988531 |
| 1925 | 3.2844307 | 1958 | 3.2918127 | 1991 | 3.2990713 |
| 1926 | 3.2846563 | 1959 | 3.2920344 | 1992 | 3.2992893 |
| 1927 | 3.2848817 | 1960 | 3.2922561 | 1993 | 3.2995073 |
| 1928 | 3.2851070 | 1961 | 3.2924776 | 1994 | 3.2997252 |
| 1929 | 3.2853322 | 1962 | 3.2926990 | 1995 | 3.2999429 |
| 1930 | 3.2855573 | 1963 | 3.2929203 | 1996 | 3.3001605 |
| 1931 | 3.2857823 | 1964 | 3.2931415 | 1997 | 3.3003781 |
| 1932 | 3.2860071 | 1965 | 3.2933626 | 1998 | 3.3005955 |
| 1933 | 3.2862319 | 1966 | 3.2935835 | 1999 | 3.3008128 |
| 1934 | 3.2864565 | 1967 | 3.2938044 | 2000 | 3.3010300 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2001 | 3.3012471 | 2034 | 3.3083509 | 2067 | 3.3153405 |
| 2002 | 3.3014641 | 2035 | 3.3085644 | 2068 | 3.3155505 |
| 2003 | 3.3016809 | 2036 | 3.3087778 | 2069 | 3.3157605 |
| 2004 | 3.3018977 | 2037 | 3.3089910 | 2070 | 3.3159703 |
| 2005 | 3.3021144 | 2038 | 3.3092042 | 2071 | 3.3161801 |
| 2006 | 3.3023309 | 2039 | 3.3094172 | 2072 | 3.3163897 |
| 2007 | 3.3025474 | 2040 | 3.3096302 | 2073 | 3.3165993 |
| 2008 | 3.3027637 | 2041 | 3.3098430 | 2074 | 3.3168088 |
| 2009 | 3.3029799 | 2042 | 3.3100557 | 2075 | 3.3170181 |
| 2010 | 3.3031961 | 2043 | 3.3102684 | 2076 | 3.3172273 |
| 2011 | 3.3034121 | 2044 | 3.3104809 | 2077 | 3.3174365 |
| 2012 | 3.3036280 | 2045 | 3.3106933 | 2078 | 3.3176455 |
| 2013 | 3.3038438 | 2046 | 3.3109056 | 2079 | 3.3178545 |
| 2014 | 3.3040595 | 2047 | 3.3111178 | 2080 | 3.3180633 |
| 2015 | 3.3042751 | 2048 | 3.3113299 | 2081 | 3.3182721 |
| 2016 | 3.3044905 | 2049 | 3.3115420 | 2082 | 3.3184807 |
| 2017 | 3.3047059 | 2050 | 3.3117539 | 2083 | 3.3186893 |
| 2018 | 3.3049212 | 2051 | 3.3119657 | 2084 | 3.3188977 |
| 2019 | 3.3051363 | 2052 | 3.3121774 | 2085 | 3.3191061 |
| 2020 | 3.3053514 | 2053 | 3.3123889 | 2086 | 3.3193143 |
| 2021 | 3.3055663 | 2054 | 3.3126004 | 2087 | 3.3195224 |
| 2022 | 3.3057812 | 2055 | 3.3128118 | 2088 | 3.3197305 |
| 2023 | 3.3059959 | 2056 | 3.3130231 | 2089 | 3.3199384 |
| 2024 | 3.3062105 | 2057 | 3.3132343 | 2090 | 3.3201463 |
| 2025 | 3.3064250 | 2058 | 3.3134454 | 2091 | 3.3203540 |
| 2026 | 3.3066394 | 2059 | 3.3136563 | 2092 | 3.3205617 |
| 2027 | 3.3068537 | 2060 | 3.3138672 | 2093 | 3.3207692 |
| 2028 | 3.3070679 | 2061 | 3.3140780 | 2094 | 3.3209767 |
| 2029 | 3.3072820 | 2062 | 3.3142887 | 2095 | 3.3211840 |
| 2030 | 3.3074960 | 2063 | 3.3144992 | 2096 | 3.3213913 |
| 2031 | 3.3077099 | 2064 | 3.3147097 | 2097 | 3.3215984 |
| 2032 | 3.3079237 | 2065 | 3.3149201 | 2098 | 3.3218055 |
| 2033 | 3.3081374 | 2066 | 3.3151303 | 2099 | 3.3220124 |
| 2034 | 3.3083509 | 2067 | 3.3153405 | 2100 | 3.3222193 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2101 | 3.3224260 | 2134 | 3.3291944 | 2167 | 3.3358589 |
| 2102 | 3.3226327 | 2135 | 3.3293979 | 2168 | 3.3360593 |
| 2103 | 3.3228393 | 2136 | 3.3296012 | 2169 | 3.3362597 |
| 2104 | 3.3230457 | 2137 | 3.3298045 | 2170 | 3.3364597 |
| 2105 | 3.3232521 | 2138 | 3.3300077 | 2171 | 3.3366598 |
| 2106 | 3.3234584 | 2139 | 3.3302108 | 2172 | 3.3368598 |
| 2107 | 3.3236645 | 2140 | 3.3304138 | 2173 | 3.3370597 |
| 2108 | 3.3238706 | 2141 | 3.3306167 | 2174 | 3.3372595 |
| 2109 | 3.3240766 | 2142 | 3.3308195 | 2175 | 3.3374593 |
| 2110 | 3.3242825 | 2143 | 3.3310222 | 2176 | 3.3376589 |
| 2111 | 3.3244882 | 2144 | 3.3312248 | 2177 | 3.3378584 |
| 2112 | 3.3246939 | 2145 | 3.3314273 | 2178 | 3.3380579 |
| 2113 | 3.3248995 | 2146 | 3.3316297 | 2179 | 3.3382572 |
| 2114 | 3.3251050 | 2147 | 3.3318320 | 2180 | 3.3384565 |
| 2115 | 3.3253104 | 2148 | 3.3320343 | 2181 | 3.3386557 |
| 2116 | 3.3255157 | 2149 | 3.3322364 | 2182 | 3.3388547 |
| 2117 | 3.3257209 | 2150 | 3.3324385 | 2183 | 3.3390537 |
| 2118 | 3.3259260 | 2151 | 3.3326404 | 2184 | 3.3392526 |
| 2119 | 3.3261310 | 2152 | 3.3328423 | 2185 | 3.3394514 |
| 2120 | 3.3263359 | 2153 | 3.3330440 | 2186 | 3.3396502 |
| 2121 | 3.3265407 | 2154 | 3.3332457 | 2187 | 3.3398488 |
| 2122 | 3.3267454 | 2155 | 3.3334473 | 2188 | 3.3400473 |
| 2123 | 3.3269500 | 2156 | 3.3336488 | 2189 | 3.3402458 |
| 2124 | 3.3271545 | 2157 | 3.3338501 | 2190 | 3.3404441 |
| 2125 | 3.3273589 | 2158 | 3.3340514 | 2191 | 3.3406424 |
| 2126 | 3.3275633 | 2159 | 3.3342526 | 2192 | 3.3408405 |
| 2127 | 3.3277675 | 2160 | 3.3344538 | 2193 | 3.3410386 |
| 2128 | 3.3279716 | 2161 | 3.3346548 | 2194 | 3.3412366 |
| 2129 | 3.3281757 | 2162 | 3.3348557 | 2195 | 3.3414345 |
| 2130 | 3.3283796 | 2163 | 3.3350565 | 2196 | 3.3416323 |
| 2131 | 3.3285834 | 2164 | 3.3352573 | 2197 | 3.3418301 |
| 2132 | 3.3287872 | 2165 | 3.3354579 | 2198 | 3.3420277 |
| 2133 | 3.3289909 | 2166 | 3.3356585 | 2199 | 3.3422252 |
| 2134 | 3.3291944 | 2167 | 3.3358589 | 2200 | 3.3424227 |

N. 146.

2200

13281  
 13481 13  
 13581 1358  
 13681 1368  
 13781 1378  
 13881 1388



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2201 | 3.3426200 | 2234 | 3.3490832 | 2267 | 3.3554515 |
| 2202 | 3.3428173 | 2235 | 3.3492775 | 2268 | 3.3556430 |
| 2203 | 3.3430145 | 2236 | 3.3494718 | 2269 | 3.3558345 |
| 2204 | 3.3432116 | 2237 | 3.3496660 | 2270 | 3.3560259 |
| 2205 | 3.3434086 | 2238 | 3.3498601 | 2271 | 3.3562171 |
| 2206 | 3.3436055 | 2239 | 3.3500541 | 2272 | 3.3564083 |
| 2207 | 3.3438023 | 2240 | 3.3502480 | 2273 | 3.3565994 |
| 2208 | 3.3439991 | 2241 | 3.3504419 | 2274 | 3.3567905 |
| 2209 | 3.3441957 | 2242 | 3.3506356 | 2275 | 3.3569814 |
| 2210 | 3.3443923 | 2243 | 3.3508293 | 2276 | 3.3571723 |
| 2211 | 3.3445887 | 2244 | 3.3510228 | 2277 | 3.3573630 |
| 2212 | 3.3447851 | 2245 | 3.3512163 | 2278 | 3.3575537 |
| 2213 | 3.3449814 | 2246 | 3.3514098 | 2279 | 3.3577443 |
| 2214 | 3.3451776 | 2247 | 3.3516031 | 2280 | 3.3579348 |
| 2215 | 3.3453737 | 2248 | 3.3517963 | 2281 | 3.3581253 |
| 2216 | 3.3455698 | 2249 | 3.3519895 | 2282 | 3.3583156 |
| 2217 | 3.3457657 | 2250 | 3.3521825 | 2283 | 3.3585059 |
| 2218 | 3.3459615 | 2251 | 3.3523755 | 2284 | 3.3586961 |
| 2219 | 3.3461573 | 2252 | 3.3525684 | 2285 | 3.3588862 |
| 2220 | 3.3463530 | 2253 | 3.3527612 | 2286 | 3.3590762 |
| 2221 | 3.3465486 | 2254 | 3.3529539 | 2287 | 3.3592662 |
| 2222 | 3.3467441 | 2255 | 3.3531465 | 2288 | 3.3594560 |
| 2223 | 3.3469395 | 2256 | 3.3533391 | 2289 | 3.3596458 |
| 2224 | 3.3471348 | 2257 | 3.3535316 | 2290 | 3.3598355 |
| 2225 | 3.3473300 | 2258 | 3.3537239 | 2291 | 3.3600251 |
| 2226 | 3.3475252 | 2259 | 3.3539162 | 2292 | 3.3602146 |
| 2227 | 3.3477202 | 2260 | 3.3541084 | 2293 | 3.3604041 |
| 2228 | 3.3479152 | 2261 | 3.3543006 | 2294 | 3.3605934 |
| 2229 | 3.3481101 | 2262 | 3.3544926 | 2295 | 3.3607827 |
| 2230 | 3.3483096 | 2263 | 3.3546846 | 2296 | 3.3609719 |
| 2231 | 3.3484996 | 2264 | 3.3548764 | 2297 | 3.3611610 |
| 2232 | 3.3486942 | 2265 | 3.3550682 | 2298 | 3.3613500 |
| 2233 | 3.3488887 | 2266 | 3.3552599 | 2299 | 3.3615390 |
| 2234 | 3.3490832 | 2267 | 3.3554515 | 2300 | 3.3617278 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2301 | 3.3619166 | 2334 | 3.3681008 | 2367 | 3.3741983 |
| 2302 | 3.3621053 | 2335 | 3.3682869 | 2368 | 3.3743817 |
| 2303 | 3.3622939 | 2336 | 3.3684728 | 2369 | 3.3745651 |
| 2304 | 3.3624825 | 2337 | 3.3686587 | 2370 | 3.3747483 |
| 2305 | 3.3626709 | 2338 | 3.3688445 | 2371 | 3.3749316 |
| 2306 | 3.3628593 | 2339 | 3.3690302 | 2372 | 3.3751147 |
| 2307 | 3.3630476 | 2340 | 3.3692159 | 2373 | 3.3752977 |
| 2308 | 3.3632358 | 2341 | 3.3694014 | 2374 | 3.3754807 |
| 2309 | 3.3634239 | 2342 | 3.3695869 | 2375 | 3.3756636 |
| 2310 | 3.3636120 | 2343 | 3.3697723 | 2376 | 3.3758464 |
| 2311 | 3.3637999 | 2344 | 3.3699576 | 2377 | 3.3760292 |
| 2312 | 3.3639878 | 2345 | 3.3701428 | 2378 | 3.3762118 |
| 2313 | 3.3641755 | 2346 | 3.3703280 | 2379 | 3.3763944 |
| 2314 | 3.3643634 | 2347 | 3.3705131 | 2380 | 3.3765770 |
| 2315 | 3.3645510 | 2348 | 3.3706981 | 2381 | 3.3767594 |
| 2316 | 3.3647386 | 2349 | 3.3708830 | 2382 | 3.3769418 |
| 2317 | 3.3649260 | 2350 | 3.3710679 | 2383 | 3.3771240 |
| 2318 | 3.3651134 | 2351 | 3.3712526 | 2384 | 3.3773062 |
| 2319 | 3.3653007 | 2352 | 3.3714373 | 2385 | 3.3774884 |
| 2320 | 3.3654880 | 2353 | 3.3716219 | 2386 | 3.3776704 |
| 2321 | 3.3656751 | 2354 | 3.3718065 | 2387 | 3.3778524 |
| 2322 | 3.3658622 | 2355 | 3.3719909 | 2388 | 3.3780343 |
| 2323 | 3.3660492 | 2356 | 3.3721753 | 2389 | 3.3782161 |
| 2324 | 3.3662361 | 2357 | 3.3723596 | 2390 | 3.3783979 |
| 2325 | 3.3664230 | 2358 | 3.3725438 | 2391 | 3.3785796 |
| 2326 | 3.3666097 | 2359 | 3.3727279 | 2392 | 3.3787612 |
| 2327 | 3.3667964 | 2360 | 3.3729120 | 2393 | 3.3789427 |
| 2328 | 3.3669830 | 2361 | 3.3730960 | 2394 | 3.3791241 |
| 2329 | 3.3671695 | 2362 | 3.3732799 | 2395 | 3.3793055 |
| 2330 | 3.3673559 | 2363 | 3.3734637 | 2396 | 3.3794868 |
| 2331 | 3.3675423 | 2364 | 3.3736475 | 2397 | 3.3796680 |
| 2332 | 3.3677285 | 2365 | 3.3738311 | 2398 | 3.3798492 |
| 2333 | 3.3679147 | 2366 | 3.3740147 | 2399 | 3.3800302 |
| 2334 | 3.3681008 | 2367 | 3.3741983 | 2400 | 3.3802112 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2401 | 3.3803922 | 2434 | 3.3863206 | 2467 | 3.3921691 |
| 2402 | 3.3805730 | 2435 | 3.3864990 | 2468 | 3.3923452 |
| 2403 | 3.3807538 | 2436 | 3.3866773 | 2469 | 3.3925211 |
| 2404 | 3.3809345 | 2437 | 3.3868555 | 2470 | 3.3926970 |
| 2405 | 3.3811151 | 2438 | 3.3870337 | 2471 | 3.3928727 |
| 2406 | 3.3812956 | 2439 | 3.3872118 | 2472 | 3.3930485 |
| 2407 | 3.3814761 | 2440 | 3.3873898 | 2473 | 3.3932241 |
| 2408 | 3.3816565 | 2441 | 3.3875678 | 2474 | 3.3933997 |
| 2409 | 3.3818368 | 2442 | 3.3877457 | 2475 | 3.3935752 |
| 2410 | 3.3820170 | 2443 | 3.3879235 | 2476 | 3.3937506 |
| 2411 | 3.3821972 | 2444 | 3.3881012 | 2477 | 3.3939260 |
| 2412 | 3.3823773 | 2445 | 3.3882789 | 2478 | 3.3941013 |
| 2413 | 3.3825573 | 2446 | 3.3884565 | 2479 | 3.3942765 |
| 2414 | 3.3827373 | 2447 | 3.3886340 | 2480 | 3.3944517 |
| 2415 | 3.3829171 | 2448 | 3.3888114 | 2481 | 3.3946268 |
| 2416 | 3.3830969 | 2449 | 3.3889888 | 2482 | 3.3948018 |
| 2417 | 3.3832767 | 2450 | 3.3891661 | 2483 | 3.3949767 |
| 2418 | 3.3834563 | 2451 | 3.3893433 | 2484 | 3.3951516 |
| 2419 | 3.3836359 | 2452 | 3.3895205 | 2485 | 3.3953264 |
| 2420 | 3.3838154 | 2453 | 3.3896975 | 2486 | 3.3955011 |
| 2421 | 3.3839948 | 2454 | 3.3898746 | 2487 | 3.3956758 |
| 2422 | 3.3841741 | 2455 | 3.3900515 | 2488 | 3.3958504 |
| 2423 | 3.3843534 | 2456 | 3.3902284 | 2489 | 3.3960249 |
| 2424 | 3.3845326 | 2457 | 3.3904052 | 2490 | 3.3961993 |
| 2425 | 3.3847117 | 2458 | 3.3905819 | 2491 | 3.3963737 |
| 2426 | 3.3848908 | 2459 | 3.3907585 | 2492 | 3.3965480 |
| 2427 | 3.3850698 | 2460 | 3.3909351 | 2493 | 3.3967223 |
| 2428 | 3.3852487 | 2461 | 3.3911116 | 2494 | 3.3968964 |
| 2429 | 3.3854275 | 2462 | 3.3912880 | 2495 | 3.3970706 |
| 2430 | 3.3856063 | 2463 | 3.3914644 | 2496 | 3.3972446 |
| 2431 | 3.3857850 | 2464 | 3.3916407 | 2497 | 3.3974185 |
| 2432 | 3.3859636 | 2465 | 3.3918169 | 2498 | 3.3975924 |
| 2433 | 3.3861421 | 2466 | 3.3919931 | 2499 | 3.3977663 |
| 2434 | 3.3863206 | 2467 | 3.3921691 | 2500 | 3.3979400 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2501 | 3.3981137 | 2534 | 3.4038066 | 2567 | 3.4094259 |
| 2502 | 3.3982873 | 2535 | 3.4039780 | 2568 | 3.4095950 |
| 2503 | 3.3984608 | 2536 | 3.4041492 | 2569 | 3.4097641 |
| 2504 | 3.3986343 | 2537 | 3.4043205 | 2570 | 3.4099331 |
| 2505 | 3.3988077 | 2538 | 3.4044916 | 2571 | 3.4101021 |
| 2506 | 3.3989811 | 2539 | 3.4046627 | 2572 | 3.4102710 |
| 2507 | 3.3991543 | 2540 | 3.4048337 | 2573 | 3.4104398 |
| 2508 | 3.3993275 | 2541 | 3.4050047 | 2574 | 3.4106085 |
| 2509 | 3.3995007 | 2542 | 3.4051755 | 2575 | 3.4107772 |
| 2510 | 3.3996737 | 2543 | 3.4053464 | 2576 | 3.4109459 |
| 2511 | 3.3998467 | 2544 | 3.4055171 | 2577 | 3.4111144 |
| 2512 | 3.4000196 | 2545 | 3.4056878 | 2578 | 3.4112829 |
| 2513 | 3.4001925 | 2546 | 3.4058584 | 2579 | 3.4114513 |
| 2514 | 3.4003653 | 2547 | 3.4060289 | 2580 | 3.4116197 |
| 2515 | 3.4005380 | 2548 | 3.4061994 | 2581 | 3.4117880 |
| 2516 | 3.4007106 | 2549 | 3.4063698 | 2582 | 3.4119562 |
| 2517 | 3.4008832 | 2550 | 3.4065402 | 2583 | 3.4121244 |
| 2518 | 3.4010557 | 2551 | 3.4067105 | 2584 | 3.4122925 |
| 2519 | 3.4012282 | 2552 | 3.4068807 | 2585 | 3.4124605 |
| 2520 | 3.4014005 | 2553 | 3.4070508 | 2586 | 3.4126285 |
| 2521 | 3.4015728 | 2554 | 3.4072209 | 2587 | 3.4127964 |
| 2522 | 3.4017451 | 2555 | 3.4073909 | 2588 | 3.4129643 |
| 2523 | 3.4019173 | 2556 | 3.4075608 | 2589 | 3.4131320 |
| 2524 | 3.4020893 | 2557 | 3.4077307 | 2590 | 3.4132998 |
| 2525 | 3.4022614 | 2558 | 3.4079005 | 2591 | 3.4134674 |
| 2526 | 3.4024333 | 2559 | 3.4080703 | 2592 | 3.4136350 |
| 2527 | 3.4026052 | 2560 | 3.4082400 | 2593 | 3.4138025 |
| 2528 | 3.4027771 | 2561 | 3.4084096 | 2594 | 3.4139700 |
| 2529 | 3.4029488 | 2562 | 3.4085791 | 2595 | 3.4141374 |
| 2530 | 3.4031205 | 2563 | 3.4087486 | 2596 | 3.4143047 |
| 2531 | 3.4032921 | 2564 | 3.4089180 | 2597 | 3.4144719 |
| 2532 | 3.4034637 | 2565 | 3.4090874 | 2598 | 3.4146391 |
| 2533 | 3.4036352 | 2566 | 3.4092567 | 2599 | 3.4148063 |
| 2534 | 3.4038066 | 2567 | 3.4094259 | 2600 | 3.4149733 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2601 | 3.4151404 | 2634 | 3.4206158 | 2667 | 3.4260230 |
| 2602 | 3.4153073 | 2635 | 3.4207806 | 2668 | 3.4261858 |
| 2603 | 3.4154742 | 2636 | 3.4209454 | 2669 | 3.4263486 |
| 2604 | 3.4156410 | 2637 | 3.4211101 | 2670 | 3.4265113 |
| 2605 | 3.4158077 | 2638 | 3.4212748 | 2671 | 3.4266739 |
| 2606 | 3.4159744 | 2639 | 3.4214394 | 2672 | 3.4268365 |
| 2607 | 3.4161410 | 2640 | 3.4216039 | 2673 | 3.4269990 |
| 2608 | 3.4163076 | 2641 | 3.4217684 | 2674 | 3.4271614 |
| 2609 | 3.4164741 | 2642 | 3.4219328 | 2675 | 3.4273238 |
| 2610 | 3.4166405 | 2643 | 3.4220972 | 2676 | 3.4274861 |
| 2611 | 3.4168069 | 2644 | 3.4222614 | 2677 | 3.4276484 |
| 2612 | 3.4169732 | 2645 | 3.4224257 | 2678 | 3.4278106 |
| 2613 | 3.4171394 | 2646 | 3.4225898 | 2679 | 3.4279727 |
| 2614 | 3.4173056 | 2647 | 3.4227539 | 2680 | 3.4281348 |
| 2615 | 3.4174717 | 2648 | 3.4229180 | 2681 | 3.4282968 |
| 2616 | 3.4176377 | 2649 | 3.4230820 | 2682 | 3.4284588 |
| 2617 | 3.4178037 | 2650 | 3.4232459 | 2683 | 3.4286207 |
| 2618 | 3.4179696 | 2651 | 3.4234097 | 2684 | 3.4287825 |
| 2619 | 3.4181355 | 2652 | 3.4235735 | 2685 | 3.4289443 |
| 2620 | 3.4183013 | 2653 | 3.4237372 | 2686 | 3.4291060 |
| 2621 | 3.4184670 | 2654 | 3.4239009 | 2687 | 3.4292677 |
| 2622 | 3.4186327 | 2655 | 3.4240645 | 2688 | 3.4294293 |
| 2623 | 3.4187983 | 2656 | 3.4242281 | 2689 | 3.4295908 |
| 2624 | 3.4189638 | 2657 | 3.4243916 | 2690 | 3.4297523 |
| 2625 | 3.4191293 | 2658 | 3.4245550 | 2691 | 3.4299137 |
| 2626 | 3.4192947 | 2659 | 3.4247183 | 2692 | 3.4300751 |
| 2627 | 3.4194601 | 2660 | 3.4248816 | 2693 | 3.4302364 |
| 2628 | 3.4196254 | 2661 | 3.4250449 | 2694 | 3.4303976 |
| 2629 | 3.4197906 | 2662 | 3.4252080 | 2695 | 3.4305588 |
| 2630 | 3.4199557 | 2663 | 3.4253712 | 2696 | 3.4307199 |
| 2631 | 3.4201208 | 2664 | 3.4255342 | 2697 | 3.4308809 |
| 2632 | 3.4202859 | 2665 | 3.4256972 | 2698 | 3.4310419 |
| 2633 | 3.4204509 | 2666 | 3.4258601 | 2699 | 3.4312029 |
| 2634 | 3.4206158 | 2667 | 3.4260230 | 2700 | 3.4313638 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2701 | 3.4315246 | 2734 | 3.4367985 | 2767 | 3.4420092 |
| 2702 | 3.4316853 | 2735 | 3.4369573 | 2768 | 3.4421661 |
| 2703 | 3.4318460 | 2736 | 3.4371161 | 2769 | 3.4423230 |
| 2704 | 3.4320067 | 2737 | 3.4372748 | 2770 | 3.4424798 |
| 2705 | 3.4321673 | 2738 | 3.4374334 | 2771 | 3.4426365 |
| 2706 | 3.4323278 | 2739 | 3.4375920 | 2772 | 3.4427932 |
| 2707 | 3.4324883 | 2740 | 3.4377506 | 2773 | 3.4429499 |
| 2708 | 3.4326487 | 2741 | 3.4379090 | 2774 | 3.4431065 |
| 2709 | 3.4328090 | 2742 | 3.4380675 | 2775 | 3.4432630 |
| 2710 | 3.4329693 | 2743 | 3.4382258 | 2776 | 3.4434195 |
| 2711 | 3.4331295 | 2744 | 3.4383841 | 2777 | 3.4435759 |
| 2712 | 3.4332897 | 2745 | 3.4385423 | 2778 | 3.4437322 |
| 2713 | 3.4334498 | 2746 | 3.4387005 | 2779 | 3.4438885 |
| 2714 | 3.4336098 | 2747 | 3.4388587 | 2780 | 3.4440448 |
| 2715 | 3.4337698 | 2748 | 3.4390167 | 2781 | 3.4442010 |
| 2716 | 3.4339298 | 2749 | 3.4391747 | 2782 | 3.4443571 |
| 2717 | 3.4340896 | 2750 | 3.4393327 | 2783 | 3.4445132 |
| 2718 | 3.4342494 | 2751 | 3.4394906 | 2784 | 3.4446692 |
| 2719 | 3.4344092 | 2752 | 3.4396484 | 2785 | 3.4448252 |
| 2720 | 3.4345689 | 2753 | 3.4398062 | 2786 | 3.4449811 |
| 2721 | 3.4347285 | 2754 | 3.4399639 | 2787 | 3.4451370 |
| 2722 | 3.4348881 | 2755 | 3.4401216 | 2788 | 3.4452928 |
| 2723 | 3.4350476 | 2756 | 3.4402792 | 2789 | 3.4454485 |
| 2724 | 3.4352071 | 2757 | 3.4404368 | 2790 | 3.4456042 |
| 2725 | 3.4353665 | 2758 | 3.4405943 | 2791 | 3.4457598 |
| 2726 | 3.4355258 | 2759 | 3.4407517 | 2792 | 3.4459154 |
| 2727 | 3.4356851 | 2760 | 3.4409091 | 2793 | 3.4460709 |
| 2728 | 3.4358444 | 2761 | 3.4410664 | 2794 | 3.4462264 |
| 2729 | 3.4360035 | 2762 | 3.4412237 | 2795 | 3.4463818 |
| 2730 | 3.4361626 | 2763 | 3.4413809 | 2796 | 3.4465372 |
| 2731 | 3.4363217 | 2764 | 3.4415380 | 2797 | 3.4466925 |
| 2732 | 3.4364807 | 2765 | 3.4416951 | 2798 | 3.4468477 |
| 2733 | 3.4366396 | 2766 | 3.4418522 | 2799 | 3.4470029 |
| 2734 | 3.4367985 | 2767 | 3.4420092 | 2800 | 3.4471580 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2801 | 3.4473131 | 2834 | 3.4523998 | 2867 | 3.4574277 |
| 2802 | 3.4474681 | 2835 | 3.4525531 | 2868 | 3.4575791 |
| 2803 | 3.4476231 | 2836 | 3.4527062 | 2869 | 3.4577305 |
| 2804 | 3.4477780 | 2837 | 3.4528593 | 2870 | 3.4578819 |
| 2805 | 3.4479329 | 2838 | 3.4530124 | 2871 | 3.4580332 |
| 2806 | 3.4480877 | 2839 | 3.4531654 | 2872 | 3.4581844 |
| 2807 | 3.4482424 | 2840 | 3.4533183 | 2873 | 3.4583356 |
| 2808 | 3.4483971 | 2841 | 3.4534712 | 2874 | 3.4584868 |
| 2809 | 3.4485517 | 2842 | 3.4536241 | 2875 | 3.4586378 |
| 2810 | 3.4487063 | 2843 | 3.4537769 | 2876 | 3.4587889 |
| 2811 | 3.4488608 | 2844 | 3.4539296 | 2877 | 3.4589399 |
| 2812 | 3.4490153 | 2845 | 3.4540823 | 2878 | 3.4590908 |
| 2813 | 3.4491697 | 2846 | 3.4542349 | 2879 | 3.4592417 |
| 2814 | 3.4493241 | 2847 | 3.4543875 | 2880 | 3.4593925 |
| 2815 | 3.4494784 | 2848 | 3.4545400 | 2881 | 3.4595433 |
| 2816 | 3.4496326 | 2849 | 3.4546924 | 2882 | 3.4596940 |
| 2817 | 3.4497868 | 2850 | 3.4548449 | 2883 | 3.4598446 |
| 2818 | 3.4499410 | 2851 | 3.4549972 | 2884 | 3.4599953 |
| 2819 | 3.4500951 | 2852 | 3.4551495 | 2885 | 3.4601458 |
| 2820 | 3.4502491 | 2853 | 3.4553018 | 2886 | 3.4602963 |
| 2821 | 3.4504031 | 2854 | 3.4554540 | 2887 | 3.4604468 |
| 2822 | 3.4505570 | 2855 | 3.4556061 | 2888 | 3.4605972 |
| 2823 | 3.4507109 | 2856 | 3.4557582 | 2889 | 3.4607475 |
| 2824 | 3.4508647 | 2857 | 3.4559102 | 2890 | 3.4608978 |
| 2825 | 3.4510184 | 2858 | 3.4560622 | 2891 | 3.4610481 |
| 2826 | 3.4511722 | 2859 | 3.4562142 | 2892 | 3.4611983 |
| 2827 | 3.4513258 | 2860 | 3.4563660 | 2893 | 3.4613484 |
| 2828 | 3.4514794 | 2861 | 3.4565179 | 2894 | 3.4614985 |
| 2829 | 3.4516329 | 2862 | 3.4566696 | 2895 | 3.4616486 |
| 2830 | 3.4517864 | 2863 | 3.4568213 | 2896 | 3.4617986 |
| 2831 | 3.4519399 | 2864 | 3.4569730 | 2897 | 3.4619485 |
| 2832 | 3.4520932 | 2865 | 3.4571246 | 2898 | 3.4620984 |
| 2833 | 3.4522466 | 2866 | 3.4572762 | 2899 | 3.4622482 |
| 2834 | 3.4523998 | 2867 | 3.4574277 | 2900 | 3.4623980 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2901 | 3.4625477 | 2934 | 3.4674601 | 2967 | 3.4723175 |
| 2902 | 3.4626974 | 2935 | 3.4676081 | 2968 | 3.4724639 |
| 2903 | 3.4628470 | 2936 | 3.4677560 | 2969 | 3.4726102 |
| 2904 | 3.4629966 | 2937 | 3.4679039 | 2970 | 3.4727564 |
| 2905 | 3.4631461 | 2938 | 3.4680518 | 2971 | 3.4729027 |
| 2906 | 3.4632956 | 2939 | 3.4681996 | 2972 | 3.4730488 |
| 2907 | 3.4634450 | 2940 | 3.4683473 | 2973 | 3.4731949 |
| 2908 | 3.4635944 | 2941 | 3.4684950 | 2974 | 3.4733410 |
| 2909 | 3.4637437 | 2942 | 3.4686427 | 2975 | 3.4734870 |
| 2910 | 3.4638930 | 2943 | 3.4687903 | 2976 | 3.4736329 |
| 2911 | 3.4640422 | 2944 | 3.4689378 | 2977 | 3.4737788 |
| 2912 | 3.4641914 | 2945 | 3.4690853 | 2978 | 3.4739247 |
| 2913 | 3.4643405 | 2946 | 3.4692327 | 2979 | 3.4740705 |
| 2914 | 3.4644895 | 2947 | 3.4693801 | 2980 | 3.4742163 |
| 2915 | 3.4646386 | 2948 | 3.4695275 | 2981 | 3.4743620 |
| 2916 | 3.4647875 | 2949 | 3.4696748 | 2982 | 3.4745076 |
| 2917 | 3.4649364 | 2950 | 3.4698220 | 2983 | 3.4746533 |
| 2918 | 3.4650853 | 2951 | 3.4699692 | 2984 | 3.4747988 |
| 2919 | 3.4652341 | 2952 | 3.4701163 | 2985 | 3.4749443 |
| 2920 | 3.4653828 | 2953 | 3.4702634 | 2986 | 3.4750898 |
| 2921 | 3.4655316 | 2954 | 3.4704105 | 2987 | 3.4752352 |
| 2922 | 3.4656802 | 2955 | 3.4705575 | 2988 | 3.4753806 |
| 2923 | 3.4658288 | 2956 | 3.4707044 | 2989 | 3.4755259 |
| 2924 | 3.4659774 | 2957 | 3.4708513 | 2990 | 3.4756712 |
| 2925 | 3.4661259 | 2958 | 3.4709982 | 2991 | 3.4758164 |
| 2926 | 3.4662743 | 2959 | 3.4711450 | 2992 | 3.4759616 |
| 2927 | 3.4664227 | 2960 | 3.4712917 | 2993 | 3.4761067 |
| 2928 | 3.4665711 | 2961 | 3.4714384 | 2994 | 3.4762518 |
| 2929 | 3.4667194 | 2962 | 3.4715851 | 2995 | 3.4763968 |
| 2930 | 3.4668676 | 2963 | 3.4717317 | 2996 | 3.4765418 |
| 2931 | 3.4670158 | 2964 | 3.4718782 | 2997 | 3.4766867 |
| 2932 | 3.4671640 | 2965 | 3.4720247 | 2998 | 3.4768316 |
| 2933 | 3.4673121 | 2966 | 3.4721711 | 2999 | 3.4769765 |
| 2934 | 3.4674601 | 2967 | 3.4723175 | 3000 | 3.4771213 |



3000

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3001 | 3.4772660 | 3034 | 3.4820156 | 3067 | 3.4867138 |
| 3002 | 3.4774107 | 3035 | 3.4821587 | 3068 | 3.4868554 |
| 3003 | 3.4775553 | 3036 | 3.4823018 | 3069 | 3.4869969 |
| 3004 | 3.4776999 | 3037 | 3.4824448 | 3070 | 3.4871384 |
| 3005 | 3.4778445 | 3038 | 3.4825878 | 3071 | 3.4872798 |
| 3006 | 3.4779890 | 3039 | 3.4827307 | 3072 | 3.4874212 |
| 3007 | 3.4781334 | 3040 | 3.4828736 | 3073 | 3.4875626 |
| 3008 | 3.4782778 | 3041 | 3.4830164 | 3074 | 3.4877039 |
| 3009 | 3.4784222 | 3042 | 3.4831592 | 3075 | 3.4878451 |
| 3010 | 3.4785665 | 3043 | 3.4833019 | 3076 | 3.4879863 |
| 3011 | 3.4787108 | 3044 | 3.4834446 | 3077 | 3.4881275 |
| 3012 | 3.4788550 | 3045 | 3.4835873 | 3078 | 3.4882686 |
| 3013 | 3.4789991 | 3046 | 3.4837299 | 3079 | 3.4884097 |
| 3014 | 3.4791432 | 3047 | 3.4838725 | 3080 | 3.4885507 |
| 3015 | 3.4792873 | 3048 | 3.4840150 | 3081 | 3.4886917 |
| 3016 | 3.4794313 | 3049 | 3.4841574 | 3082 | 3.4888326 |
| 3017 | 3.4795753 | 3050 | 3.4842998 | 3083 | 3.4889735 |
| 3018 | 3.4797192 | 3051 | 3.4844422 | 3084 | 3.4891144 |
| 3019 | 3.4798631 | 3052 | 3.4845845 | 3085 | 3.4892552 |
| 3020 | 3.4800069 | 3053 | 3.4847268 | 3086 | 3.4893959 |
| 3021 | 3.4801507 | 3054 | 3.4848690 | 3087 | 3.4895366 |
| 3022 | 3.4802945 | 3055 | 3.4850112 | 3088 | 3.4896773 |
| 3023 | 3.4804381 | 3056 | 3.4851533 | 3089 | 3.4898179 |
| 3024 | 3.4805818 | 3057 | 3.4852954 | 3090 | 3.4899585 |
| 3025 | 3.4807254 | 3058 | 3.4854375 | 3091 | 3.4900990 |
| 3026 | 3.4808689 | 3059 | 3.4855795 | 3092 | 3.4902395 |
| 3027 | 3.4810124 | 3060 | 3.4857214 | 3093 | 3.4903799 |
| 3028 | 3.4811559 | 3061 | 3.4858633 | 3094 | 3.4905203 |
| 3029 | 3.4812993 | 3062 | 3.4860052 | 3095 | 3.4906607 |
| 3030 | 3.4814426 | 3063 | 3.4861470 | 3096 | 3.4908009 |
| 3031 | 3.4815859 | 3064 | 3.4862888 | 3097 | 3.4909412 |
| 3032 | 3.4817292 | 3065 | 3.4864305 | 3098 | 3.4910814 |
| 3033 | 3.4818724 | 3066 | 3.4865721 | 3099 | 3.4912216 |
| 3034 | 3.4820156 | 3067 | 3.4867138 | 3100 | 3.4913617 |

N. 125.

3100

49 24 49 24  
 48 81 48 81  
 61 61 61 61  
 49 24 49 24



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3101 | 3.4915018 | 3134 | 3.4960990 | 3167 | 3.5006481 |
| 3102 | 3.4916418 | 3135 | 3.4962375 | 3168 | 3.5007852 |
| 3103 | 3.4917818 | 3136 | 3.4963761 | 3169 | 3.5009222 |
| 3104 | 3.4919217 | 3137 | 3.4965145 | 3170 | 3.5010593 |
| 3105 | 3.4920616 | 3138 | 3.4966529 | 3171 | 3.5011962 |
| 3106 | 3.4922014 | 3139 | 3.4967913 | 3172 | 3.5013332 |
| 3107 | 3.4923413 | 3140 | 3.4969296 | 3173 | 3.5014701 |
| 3108 | 3.4924810 | 3141 | 3.4970679 | 3174 | 3.5016069 |
| 3109 | 3.4926207 | 3142 | 3.4972062 | 3175 | 3.5017437 |
| 3110 | 3.4927604 | 3143 | 3.4973444 | 3176 | 3.5018805 |
| 3111 | 3.4929000 | 3144 | 3.4974825 | 3177 | 3.5020172 |
| 3112 | 3.4930396 | 3145 | 3.4976206 | 3178 | 3.5021539 |
| 3113 | 3.4931791 | 3146 | 3.4977587 | 3179 | 3.5022905 |
| 3114 | 3.4933186 | 3147 | 3.4978967 | 3180 | 3.5024271 |
| 3115 | 3.4934580 | 3148 | 3.4980347 | 3181 | 3.5025637 |
| 3116 | 3.4935974 | 3149 | 3.4981727 | 3182 | 3.5027002 |
| 3117 | 3.4937368 | 3150 | 3.4983106 | 3183 | 3.5028366 |
| 3118 | 3.4938761 | 3151 | 3.4984484 | 3184 | 3.5029731 |
| 3119 | 3.4940154 | 3152 | 3.4985862 | 3185 | 3.5031094 |
| 3120 | 3.4941546 | 3153 | 3.4987240 | 3186 | 3.5032458 |
| 3121 | 3.4942938 | 3154 | 3.4988617 | 3187 | 3.5033821 |
| 3122 | 3.4944329 | 3155 | 3.4989994 | 3188 | 3.5035183 |
| 3123 | 3.4945720 | 3156 | 3.4991370 | 3189 | 3.5036545 |
| 3124 | 3.4947110 | 3157 | 3.4992746 | 3190 | 3.5037907 |
| 3125 | 3.4948500 | 3158 | 3.4994121 | 3191 | 3.5039268 |
| 3126 | 3.4949890 | 3159 | 3.4995496 | 3192 | 3.5040629 |
| 3127 | 3.4951279 | 3160 | 3.4996871 | 3193 | 3.5041989 |
| 3128 | 3.4952667 | 3161 | 3.4998245 | 3194 | 3.5043349 |
| 3129 | 3.4954056 | 3162 | 3.4999619 | 3195 | 3.5044709 |
| 3130 | 3.4955443 | 3163 | 3.5000992 | 3196 | 3.5046068 |
| 3131 | 3.4956831 | 3164 | 3.5002365 | 3197 | 3.5047426 |
| 3132 | 3.4958218 | 3165 | 3.5003737 | 3198 | 3.5048785 |
| 3133 | 3.4959604 | 3166 | 3.5005109 | 3199 | 3.5050142 |
| 3134 | 3.4960990 | 3167 | 3.5006481 | 3200 | 3.5051500 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3201 | 3.5052857 | 3234 | 3.5097400 | 3267 | 3.5141491 |
| 3202 | 3.5054213 | 3235 | 3.5098743 | 3268 | 3.5142820 |
| 3203 | 3.5055569 | 3236 | 3.5100085 | 3269 | 3.5144149 |
| 3204 | 3.5056925 | 3237 | 3.5101427 | 3270 | 3.5145478 |
| 3205 | 3.5058280 | 3238 | 3.5102768 | 3271 | 3.5146805 |
| 3206 | 3.5059635 | 3239 | 3.5104109 | 3272 | 3.5148133 |
| 3207 | 3.5060990 | 3240 | 3.5105450 | 3273 | 3.5149460 |
| 3208 | 3.5062344 | 3241 | 3.5106790 | 3274 | 3.5150787 |
| 3209 | 3.5063697 | 3242 | 3.5108130 | 3275 | 3.5152113 |
| 3210 | 3.5065050 | 3243 | 3.5109469 | 3276 | 3.5153439 |
| 3211 | 3.5066403 | 3244 | 3.5110808 | 3277 | 3.5154764 |
| 3212 | 3.5067755 | 3245 | 3.5112147 | 3278 | 3.5156089 |
| 3213 | 3.5069107 | 3246 | 3.5113485 | 3279 | 3.5157414 |
| 3214 | 3.5070459 | 3247 | 3.5114823 | 3280 | 3.5158738 |
| 3215 | 3.5071810 | 3248 | 3.5116160 | 3281 | 3.5160062 |
| 3216 | 3.5073160 | 3249 | 3.5117497 | 3282 | 3.5161386 |
| 3217 | 3.5074511 | 3250 | 3.5118834 | 3283 | 3.5162709 |
| 3218 | 3.5075860 | 3251 | 3.5120170 | 3284 | 3.5164031 |
| 3219 | 3.5077210 | 3252 | 3.5121505 | 3285 | 3.5165354 |
| 3220 | 3.5078559 | 3253 | 3.5122841 | 3286 | 3.5166676 |
| 3221 | 3.5079907 | 3254 | 3.5124175 | 3287 | 3.5167997 |
| 3222 | 3.5081255 | 3255 | 3.5125510 | 3288 | 3.5169318 |
| 3223 | 3.5082603 | 3256 | 3.5126844 | 3289 | 3.5170639 |
| 3224 | 3.5083950 | 3257 | 3.5128178 | 3290 | 3.5171959 |
| 3225 | 3.5085297 | 3258 | 3.5129511 | 3291 | 3.5173279 |
| 3226 | 3.5086644 | 3259 | 3.5130844 | 3292 | 3.5174598 |
| 3227 | 3.5087990 | 3260 | 3.5132176 | 3293 | 3.5175917 |
| 3228 | 3.5089335 | 3261 | 3.5133508 | 3294 | 3.5177236 |
| 3229 | 3.5090680 | 3262 | 3.5134840 | 3295 | 3.5178554 |
| 3230 | 3.5092025 | 3263 | 3.5136171 | 3296 | 3.5179872 |
| 3231 | 3.5093370 | 3264 | 3.5137501 | 3297 | 3.5181189 |
| 3232 | 3.5094713 | 3265 | 3.5138832 | 3298 | 3.5182506 |
| 3233 | 3.5096057 | 3266 | 3.5140162 | 3299 | 3.5183823 |
| 3234 | 3.5097400 | 3267 | 3.5141491 | 3300 | 3.5185139 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3301 | 3.5186455 | 3334 | 3.5229656 | 3367 | 3.5272431 |
| 3302 | 3.5187771 | 3335 | 3.5230958 | 3368 | 3.5273721 |
| 3303 | 3.5189086 | 3336 | 3.5232260 | 3369 | 3.5275010 |
| 3304 | 3.5190400 | 3337 | 3.5233562 | 3370 | 3.5276299 |
| 3305 | 3.5191715 | 3338 | 3.5234863 | 3371 | 3.5277588 |
| 3306 | 3.5193028 | 3339 | 3.5236164 | 3372 | 3.5278876 |
| 3307 | 3.5194342 | 3340 | 3.5237465 | 3373 | 3.5280163 |
| 3308 | 3.5195655 | 3341 | 3.5238765 | 3374 | 3.5281451 |
| 3309 | 3.5196968 | 3342 | 3.5240064 | 3375 | 3.5282738 |
| 3310 | 3.5198280 | 3343 | 3.5241364 | 3376 | 3.5284024 |
| 3311 | 3.5199592 | 3344 | 3.5242663 | 3377 | 3.5285311 |
| 3312 | 3.5200903 | 3345 | 3.5243961 | 3378 | 3.5286596 |
| 3313 | 3.5202214 | 3346 | 3.5245259 | 3379 | 3.5287882 |
| 3314 | 3.5203525 | 3347 | 3.5246557 | 3380 | 3.5289167 |
| 3315 | 3.5204835 | 3348 | 3.5247854 | 3381 | 3.5290452 |
| 3316 | 3.5206145 | 3349 | 3.5249151 | 3382 | 3.5291736 |
| 3317 | 3.5207455 | 3350 | 3.5250448 | 3383 | 3.5293020 |
| 3318 | 3.5208764 | 3351 | 3.5251744 | 3384 | 3.5294304 |
| 3319 | 3.5210073 | 3352 | 3.5253040 | 3385 | 3.5295587 |
| 3320 | 3.5211381 | 3353 | 3.5254336 | 3386 | 3.5296870 |
| 3321 | 3.5212689 | 3354 | 3.5255631 | 3387 | 3.5298152 |
| 3322 | 3.5213996 | 3355 | 3.5256925 | 3388 | 3.5299434 |
| 3323 | 3.5215303 | 3356 | 3.5258219 | 3389 | 3.5300716 |
| 3324 | 3.5216610 | 3357 | 3.5259513 | 3390 | 3.5301997 |
| 3325 | 3.5217916 | 3358 | 3.5260807 | 3391 | 3.5303278 |
| 3326 | 3.5219222 | 3359 | 3.5262100 | 3392 | 3.5304558 |
| 3327 | 3.5220528 | 3360 | 3.5263393 | 3393 | 3.5305839 |
| 3328 | 3.5221833 | 3361 | 3.5264685 | 3394 | 3.5307118 |
| 3329 | 3.5223138 | 3362 | 3.5265977 | 3395 | 3.5308398 |
| 3330 | 3.5224442 | 3363 | 3.5267269 | 3396 | 3.5309677 |
| 3331 | 3.5225746 | 3364 | 3.5268560 | 3397 | 3.5310955 |
| 3332 | 3.5227050 | 3365 | 3.5269851 | 3398 | 3.5312234 |
| 3333 | 3.5228353 | 3366 | 3.5271141 | 3399 | 3.5313512 |
| 3334 | 3.5229656 | 3367 | 3.5272431 | 3400 | 3.5314789 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3401 | 3.5316066 | 3434 | 3.5358003 | 3467 | 3.5399538 |
| 3402 | 3.5317343 | 3435 | 3.5359267 | 3468 | 3.5400791 |
| 3403 | 3.5318619 | 3436 | 3.5360532 | 3469 | 3.5402043 |
| 3404 | 3.5319895 | 3437 | 3.5361795 | 3470 | 3.5403295 |
| 3405 | 3.5321171 | 3438 | 3.5363059 | 3471 | 3.5404546 |
| 3406 | 3.5322446 | 3439 | 3.5364322 | 3472 | 3.5405797 |
| 3407 | 3.5323721 | 3440 | 3.5365584 | 3473 | 3.5407048 |
| 3408 | 3.5324996 | 3441 | 3.5366847 | 3474 | 3.5408298 |
| 3409 | 3.5326270 | 3442 | 3.5368109 | 3475 | 3.5409548 |
| 3410 | 3.5327544 | 3443 | 3.5369370 | 3476 | 3.5410798 |
| 3411 | 3.5328817 | 3444 | 3.5370631 | 3477 | 3.5412047 |
| 3412 | 3.5330090 | 3445 | 3.5371892 | 3478 | 3.5413296 |
| 3413 | 3.5331363 | 3446 | 3.5373153 | 3479 | 3.5414544 |
| 3414 | 3.5332635 | 3447 | 3.5374413 | 3480 | 3.5415792 |
| 3415 | 3.5333907 | 3448 | 3.5375673 | 3481 | 3.5417040 |
| 3416 | 3.5335179 | 3449 | 3.5376932 | 3482 | 3.5418288 |
| 3417 | 3.5336450 | 3450 | 3.5378191 | 3483 | 3.5419535 |
| 3418 | 3.5337721 | 3451 | 3.5379450 | 3484 | 3.5420781 |
| 3419 | 3.5338991 | 3452 | 3.5380708 | 3485 | 3.5422028 |
| 3420 | 3.5340261 | 3453 | 3.5381966 | 3486 | 3.5423274 |
| 3421 | 3.5341531 | 3454 | 3.5383223 | 3487 | 3.5424519 |
| 3422 | 3.5342800 | 3455 | 3.5384481 | 3488 | 3.5425765 |
| 3423 | 3.5344069 | 3456 | 3.5385737 | 3489 | 3.5427010 |
| 3424 | 3.5345338 | 3457 | 3.5386994 | 3490 | 3.5428254 |
| 3425 | 3.5346606 | 3458 | 3.5388250 | 3491 | 3.5429498 |
| 3426 | 3.5347874 | 3459 | 3.5389506 | 3492 | 3.5430742 |
| 3427 | 3.5349141 | 3460 | 3.5390761 | 3493 | 3.5431986 |
| 3428 | 3.5350408 | 3461 | 3.5392016 | 3494 | 3.5433229 |
| 3429 | 3.5351675 | 3462 | 3.5393271 | 3495 | 3.5434472 |
| 3430 | 3.5352941 | 3463 | 3.5394525 | 3496 | 3.5435714 |
| 3431 | 3.5354207 | 3464 | 3.5395779 | 3497 | 3.5436956 |
| 3432 | 3.5355473 | 3465 | 3.5397032 | 3498 | 3.5438198 |
| 3433 | 3.5356738 | 3466 | 3.5398286 | 3499 | 3.5439439 |
| 3434 | 3.5358003 | 3467 | 3.5399538 | 3500 | 3.5440680 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3501 | 3.5441921 | 3534 | 3.5482665 | 3567 | 3.5523031 |
| 3502 | 3.5443161 | 3535 | 3.5483894 | 3568 | 3.5524248 |
| 3503 | 3.5444401 | 3536 | 3.5485123 | 3569 | 3.5525465 |
| 3504 | 3.5445641 | 3537 | 3.5486351 | 3570 | 3.5526682 |
| 3505 | 3.5446880 | 3538 | 3.5487578 | 3571 | 3.5527898 |
| 3506 | 3.5448119 | 3539 | 3.5488806 | 3572 | 3.5529114 |
| 3507 | 3.5449358 | 3540 | 3.5490033 | 3573 | 3.5530330 |
| 3508 | 3.5450596 | 3541 | 3.5491259 | 3574 | 3.5531545 |
| 3509 | 3.5451834 | 3542 | 3.5492486 | 3575 | 3.5532760 |
| 3510 | 3.5453071 | 3543 | 3.5493712 | 3576 | 3.5533975 |
| 3511 | 3.5454308 | 3544 | 3.5494937 | 3577 | 3.5535189 |
| 3512 | 3.5455545 | 3545 | 3.5496162 | 3578 | 3.5536403 |
| 3513 | 3.5456781 | 3546 | 3.5497387 | 3579 | 3.5537617 |
| 3514 | 3.5458018 | 3547 | 3.5498612 | 3580 | 3.5538830 |
| 3515 | 3.5459253 | 3548 | 3.5499836 | 3581 | 3.5540043 |
| 3516 | 3.5460489 | 3549 | 3.5501060 | 3582 | 3.5541256 |
| 3517 | 3.5461724 | 3550 | 3.5502284 | 3583 | 3.5542468 |
| 3518 | 3.5462958 | 3551 | 3.5503507 | 3584 | 3.5543680 |
| 3519 | 3.5464193 | 3552 | 3.5504730 | 3585 | 3.5544892 |
| 3520 | 3.5465427 | 3553 | 3.5505952 | 3586 | 3.5546103 |
| 3521 | 3.5466660 | 3554 | 3.5507174 | 3587 | 3.5547314 |
| 3522 | 3.5467894 | 3555 | 3.5508396 | 3588 | 3.5548524 |
| 3523 | 3.5469126 | 3556 | 3.5509618 | 3589 | 3.5549735 |
| 3524 | 3.5470359 | 3557 | 3.5510839 | 3590 | 3.5550944 |
| 3525 | 3.5471591 | 3558 | 3.5512059 | 3591 | 3.5552154 |
| 3526 | 3.5472823 | 3559 | 3.5513280 | 3592 | 3.5553363 |
| 3527 | 3.5474055 | 3560 | 3.5514500 | 3593 | 3.5554572 |
| 3528 | 3.5475286 | 3561 | 3.5515720 | 3594 | 3.5555781 |
| 3529 | 3.5476517 | 3562 | 3.5516939 | 3595 | 3.5556989 |
| 3530 | 3.5477747 | 3563 | 3.5518158 | 3596 | 3.5558197 |
| 3531 | 3.5478977 | 3564 | 3.5519377 | 3597 | 3.5559404 |
| 3532 | 3.5480207 | 3565 | 3.5520595 | 3598 | 3.5560612 |
| 3533 | 3.5481436 | 3566 | 3.5521813 | 3599 | 3.5561818 |
| 3534 | 3.5482665 | 3567 | 3.5523031 | 3600 | 3.5563025 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3601 | 3.5564231 | 3634 | 3.5603849 | 3667 | 3.5643109 |
| 3602 | 3.5565437 | 3635 | 3.5605044 | 3668 | 3.5644293 |
| 3603 | 3.5566643 | 3636 | 3.5606239 | 3669 | 3.5645477 |
| 3604 | 3.5567848 | 3637 | 3.5607433 | 3670 | 3.5646661 |
| 3605 | 3.5569053 | 3638 | 3.5608627 | 3671 | 3.5647844 |
| 3606 | 3.5570257 | 3639 | 3.5609821 | 3672 | 3.5649027 |
| 3607 | 3.5571461 | 3640 | 3.5611014 | 3673 | 3.5650209 |
| 3608 | 3.5572665 | 3641 | 3.5612207 | 3674 | 3.5651392 |
| 3609 | 3.5573869 | 3642 | 3.5613399 | 3675 | 3.5652573 |
| 3610 | 3.5575072 | 3643 | 3.5614592 | 3676 | 3.5653755 |
| 3611 | 3.5576275 | 3644 | 3.5615784 | 3677 | 3.5654936 |
| 3612 | 3.5577477 | 3645 | 3.5616975 | 3678 | 3.5656117 |
| 3613 | 3.5578680 | 3646 | 3.5618167 | 3679 | 3.5657298 |
| 3614 | 3.5579881 | 3647 | 3.5619358 | 3680 | 3.5658478 |
| 3615 | 3.5581083 | 3648 | 3.5620548 | 3681 | 3.5659658 |
| 3616 | 3.5582284 | 3649 | 3.5621739 | 3682 | 3.5660838 |
| 3617 | 3.5583485 | 3650 | 3.5622929 | 3683 | 3.5662017 |
| 3618 | 3.5584686 | 3651 | 3.5624118 | 3684 | 3.5663196 |
| 3619 | 3.5585886 | 3652 | 3.5625308 | 3685 | 3.5664375 |
| 3620 | 3.5587086 | 3653 | 3.5626497 | 3686 | 3.5665553 |
| 3621 | 3.5588285 | 3654 | 3.5627685 | 3687 | 3.5666731 |
| 3622 | 3.5589484 | 3655 | 3.5628874 | 3688 | 3.5667909 |
| 3623 | 3.5590683 | 3656 | 3.5630062 | 3689 | 3.5669087 |
| 3624 | 3.5591882 | 3657 | 3.5631250 | 3690 | 3.5670264 |
| 3625 | 3.5593080 | 3658 | 3.5632437 | 3691 | 3.5671440 |
| 3626 | 3.5594278 | 3659 | 3.5633624 | 3692 | 3.5672617 |
| 3627 | 3.5595476 | 3660 | 3.5634811 | 3693 | 3.5673793 |
| 3628 | 3.5596673 | 3661 | 3.5635997 | 3694 | 3.5674969 |
| 3629 | 3.5597870 | 3662 | 3.5637183 | 3695 | 3.5676144 |
| 3630 | 3.5599066 | 3663 | 3.5638369 | 3696 | 3.5677320 |
| 3631 | 3.5600262 | 3664 | 3.5639555 | 3697 | 3.5678494 |
| 3632 | 3.5601458 | 3665 | 3.5640740 | 3698 | 3.5679669 |
| 3633 | 3.5602654 | 3666 | 3.5641925 | 3699 | 3.5680843 |
| 3634 | 3.5603849 | 3667 | 3.5643109 | 3700 | 3.5682017 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3701 | 3.5683191 | 3734 | 3.5721743 | 3767 | 3.5759956 |
| 3702 | 3.5684364 | 3735 | 3.5722906 | 3768 | 3.5761109 |
| 3703 | 3.5685537 | 3736 | 3.5724069 | 3769 | 3.5762261 |
| 3704 | 3.5686710 | 3737 | 3.5725231 | 3770 | 3.5763413 |
| 3705 | 3.5687882 | 3738 | 3.5726393 | 3771 | 3.5764565 |
| 3706 | 3.5689054 | 3739 | 3.5727555 | 3772 | 3.5765717 |
| 3707 | 3.5690226 | 3740 | 3.5728716 | 3773 | 3.5766868 |
| 3708 | 3.5691397 | 3741 | 3.5729877 | 3774 | 3.5768019 |
| 3709 | 3.5692568 | 3742 | 3.5731038 | 3775 | 3.5769170 |
| 3710 | 3.5693739 | 3743 | 3.5732198 | 3776 | 3.5770320 |
| 3711 | 3.5694910 | 3744 | 3.5733358 | 3777 | 3.5771470 |
| 3712 | 3.5696080 | 3745 | 3.5734518 | 3778 | 3.5772620 |
| 3713 | 3.5697249 | 3746 | 3.5735678 | 3779 | 3.5773769 |
| 3714 | 3.5698419 | 3747 | 3.5736837 | 3780 | 3.5774918 |
| 3715 | 3.5699588 | 3748 | 3.5737996 | 3781 | 3.5776067 |
| 3716 | 3.5700757 | 3749 | 3.5739154 | 3782 | 3.5777215 |
| 3717 | 3.5701926 | 3750 | 3.5740313 | 3783 | 3.5778363 |
| 3718 | 3.5703094 | 3751 | 3.5741471 | 3784 | 3.5779511 |
| 3719 | 3.5704262 | 3752 | 3.5742628 | 3785 | 3.5780659 |
| 3720 | 3.5705429 | 3753 | 3.5743786 | 3786 | 3.5781806 |
| 3721 | 3.5706597 | 3754 | 3.5744943 | 3787 | 3.5782953 |
| 3722 | 3.5707764 | 3755 | 3.5746099 | 3788 | 3.5784100 |
| 3723 | 3.5708930 | 3756 | 3.5747256 | 3789 | 3.5785246 |
| 3724 | 3.5710097 | 3757 | 3.5748412 | 3790 | 3.5786392 |
| 3725 | 3.5711263 | 3758 | 3.5749568 | 3791 | 3.5787538 |
| 3726 | 3.5712428 | 3759 | 3.5750723 | 3792 | 3.5788683 |
| 3727 | 3.5713594 | 3760 | 3.5751878 | 3793 | 3.5789828 |
| 3728 | 3.5714759 | 3761 | 3.5753033 | 3794 | 3.5790973 |
| 3729 | 3.5715924 | 3762 | 3.5754188 | 3795 | 3.5792118 |
| 3730 | 3.5717088 | 3763 | 3.5755342 | 3796 | 3.5793262 |
| 3731 | 3.5718252 | 3764 | 3.5756496 | 3797 | 3.5794406 |
| 3732 | 3.5719416 | 3765 | 3.5757650 | 3798 | 3.5795550 |
| 3733 | 3.5720580 | 3766 | 3.5758803 | 3799 | 3.5796693 |
| 3734 | 3.5721743 | 3767 | 3.5759956 | 3800 | 3.5797836 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3801 | 3.5798979 | 3834 | 3.5836521 | 3867 | 3.5873742 |
| 3802 | 3.5800121 | 3835 | 3.5837654 | 3868 | 3.5874865 |
| 3803 | 3.5801263 | 3836 | 3.5838786 | 3869 | 3.5875987 |
| 3804 | 3.5802405 | 3837 | 3.5839918 | 3870 | 3.5877110 |
| 3805 | 3.5803547 | 3838 | 3.5841050 | 3871 | 3.5878232 |
| 3806 | 3.5804688 | 3839 | 3.5842181 | 3872 | 3.5879353 |
| 3807 | 3.5805829 | 3840 | 3.5843312 | 3873 | 3.5880475 |
| 3808 | 3.5806969 | 3841 | 3.5844443 | 3874 | 3.5881596 |
| 3809 | 3.5808110 | 3842 | 3.5845574 | 3875 | 3.5882717 |
| 3810 | 3.5809250 | 3843 | 3.5846704 | 3876 | 3.5883838 |
| 3811 | 3.5810389 | 3844 | 3.5847834 | 3877 | 3.5884958 |
| 3812 | 3.5811529 | 3845 | 3.5848963 | 3878 | 3.5886078 |
| 3813 | 3.5812668 | 3846 | 3.5850093 | 3879 | 3.5887198 |
| 3814 | 3.5813807 | 3847 | 3.5851222 | 3880 | 3.5888317 |
| 3815 | 3.5814945 | 3848 | 3.5852351 | 3881 | 3.5889436 |
| 3816 | 3.5816084 | 3849 | 3.5853479 | 3882 | 3.5890555 |
| 3817 | 3.5817222 | 3850 | 3.5854607 | 3883 | 3.5891674 |
| 3818 | 3.5818359 | 3851 | 3.5855735 | 3884 | 3.5892792 |
| 3819 | 3.5819497 | 3852 | 3.5856863 | 3885 | 3.5893910 |
| 3820 | 3.5820634 | 3853 | 3.5857990 | 3886 | 3.5895028 |
| 3821 | 3.5821770 | 3854 | 3.5859117 | 3887 | 3.5896145 |
| 3822 | 3.5822907 | 3855 | 3.5860244 | 3888 | 3.5897263 |
| 3823 | 3.5824043 | 3856 | 3.5861370 | 3889 | 3.5898379 |
| 3824 | 3.5825179 | 3857 | 3.5862496 | 3890 | 3.5899496 |
| 3825 | 3.5826314 | 3858 | 3.5863622 | 3891 | 3.5900612 |
| 3826 | 3.5827450 | 3859 | 3.5864748 | 3892 | 3.5901728 |
| 3827 | 3.5828585 | 3860 | 3.5865873 | 3893 | 3.5902844 |
| 3828 | 3.5829719 | 3861 | 3.5866998 | 3894 | 3.5903959 |
| 3829 | 3.5830854 | 3862 | 3.5868123 | 3895 | 3.5905075 |
| 3830 | 3.5831988 | 3863 | 3.5869247 | 3896 | 3.5906189 |
| 3831 | 3.5833122 | 3864 | 3.5870371 | 3897 | 3.5907304 |
| 3832 | 3.5834255 | 3865 | 3.5871495 | 3898 | 3.5908418 |
| 3833 | 3.5835388 | 3866 | 3.5872618 | 3899 | 3.5909532 |
| 3834 | 3.5836521 | 3867 | 3.5873742 | 3900 | 3.5910646 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3901 | 3.5911759 | 3934 | 3.5948344 | 3967 | 3.5984622 |
| 3902 | 3.5912873 | 3935 | 3.5949447 | 3968 | 3.5985717 |
| 3903 | 3.5913986 | 3936 | 3.5950551 | 3969 | 3.5986811 |
| 3904 | 3.5915098 | 3937 | 3.5951654 | 3970 | 3.5987905 |
| 3905 | 3.5916210 | 3938 | 3.5952757 | 3971 | 3.5988999 |
| 3906 | 3.5917322 | 3939 | 3.5953860 | 3972 | 3.5990092 |
| 3907 | 3.5918434 | 3940 | 3.5954962 | 3973 | 3.5991186 |
| 3908 | 3.5919546 | 3941 | 3.5956064 | 3974 | 3.5992279 |
| 3909 | 3.5920657 | 3942 | 3.5957166 | 3975 | 3.5993371 |
| 3910 | 3.5921768 | 3943 | 3.5958268 | 3976 | 3.5994464 |
| 3911 | 3.5922878 | 3944 | 3.5959369 | 3977 | 3.5995556 |
| 3912 | 3.5923988 | 3945 | 3.5960470 | 3978 | 3.5996648 |
| 3913 | 3.5925098 | 3946 | 3.5961571 | 3979 | 3.5997739 |
| 3914 | 3.5926208 | 3947 | 3.5962671 | 3980 | 3.5998831 |
| 3915 | 3.5927318 | 3948 | 3.5963771 | 3981 | 3.5999922 |
| 3916 | 3.5928427 | 3949 | 3.5964871 | 3982 | 3.6001013 |
| 3917 | 3.5929536 | 3950 | 3.5965971 | 3983 | 3.6002103 |
| 3918 | 3.5930644 | 3951 | 3.5967070 | 3984 | 3.6003193 |
| 3919 | 3.5931753 | 3952 | 3.5968169 | 3985 | 3.6004283 |
| 3920 | 3.5932861 | 3953 | 3.5969268 | 3986 | 3.6005373 |
| 3921 | 3.5933968 | 3954 | 3.5970367 | 3987 | 3.6006462 |
| 3922 | 3.5935076 | 3955 | 3.5971465 | 3988 | 3.6007551 |
| 3923 | 3.5936183 | 3956 | 3.5972563 | 3989 | 3.6008640 |
| 3924 | 3.5937290 | 3957 | 3.5973660 | 3990 | 3.6009729 |
| 3925 | 3.5938397 | 3958 | 3.5974758 | 3991 | 3.6010817 |
| 3926 | 3.5939503 | 3959 | 3.5975855 | 3992 | 3.6011905 |
| 3927 | 3.5940609 | 3960 | 3.5976952 | 3993 | 3.6012993 |
| 3928 | 3.5941715 | 3961 | 3.5978048 | 3994 | 3.6014081 |
| 3929 | 3.5942820 | 3962 | 3.5979145 | 3995 | 3.6015168 |
| 3930 | 3.5943925 | 3963 | 3.5980241 | 3996 | 3.6016255 |
| 3931 | 3.5945030 | 3964 | 3.5981336 | 3997 | 3.6017341 |
| 3932 | 3.5946135 | 3965 | 3.5982432 | 3998 | 3.6018428 |
| 3933 | 3.5947239 | 3966 | 3.5983527 | 3999 | 3.6019514 |
| 3934 | 3.5948344 | 3967 | 3.5984622 | 3000 | 3.6020600 |



4000

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4001 | 3.6021685 | 4034 | 3.6057359 | 4067 | 3.6092742 |
| 4002 | 3.6022771 | 4035 | 3.6058435 | 4068 | 3.6093809 |
| 4003 | 3.6023856 | 4036 | 3.6059512 | 4069 | 3.6094877 |
| 4004 | 3.6024941 | 4037 | 3.6060587 | 4070 | 3.6095944 |
| 4005 | 3.6026025 | 4038 | 3.6061663 | 4071 | 3.6097011 |
| 4006 | 3.6027109 | 4039 | 3.6062739 | 4072 | 3.6098078 |
| 4007 | 3.6028193 | 4040 | 3.6063814 | 4073 | 3.6099144 |
| 4008 | 3.6029277 | 4041 | 3.6064888 | 4074 | 3.6100210 |
| 4009 | 3.6030361 | 4042 | 3.6065963 | 4075 | 3.6101276 |
| 4010 | 3.6031444 | 4043 | 3.6067037 | 4076 | 3.6102342 |
| 4011 | 3.6032527 | 4044 | 3.6068111 | 4077 | 3.6103407 |
| 4012 | 3.6033609 | 4045 | 3.6069185 | 4078 | 3.6104472 |
| 4013 | 3.6034692 | 4046 | 3.6070259 | 4079 | 3.6105537 |
| 4014 | 3.6035774 | 4047 | 3.6071332 | 4080 | 3.6106602 |
| 4015 | 3.6036855 | 4048 | 3.6072405 | 4081 | 3.6107666 |
| 4016 | 3.6037937 | 4049 | 3.6073478 | 4082 | 3.6108730 |
| 4017 | 3.6039018 | 4050 | 3.6074550 | 4083 | 3.6109794 |
| 4018 | 3.6040099 | 4051 | 3.6075622 | 4084 | 3.6110857 |
| 4019 | 3.6041180 | 4052 | 3.6076694 | 4085 | 3.6111921 |
| 4020 | 3.6042261 | 4053 | 3.6077766 | 4086 | 3.6112984 |
| 4021 | 3.6043341 | 4054 | 3.6078837 | 4087 | 3.6114046 |
| 4022 | 3.6044421 | 4055 | 3.6079909 | 4088 | 3.6115109 |
| 4023 | 3.6045500 | 4056 | 3.6080979 | 4089 | 3.6116171 |
| 4024 | 3.6046580 | 4057 | 3.6082050 | 4090 | 3.6117233 |
| 4025 | 3.6047659 | 4058 | 3.6083120 | 4091 | 3.6118295 |
| 4026 | 3.6048738 | 4059 | 3.6084190 | 4092 | 3.6119356 |
| 4027 | 3.6049816 | 4060 | 3.6085260 | 4093 | 3.6120417 |
| 4028 | 3.6050895 | 4061 | 3.6086330 | 4094 | 3.6121478 |
| 4029 | 3.6051973 | 4062 | 3.6087399 | 4095 | 3.6122539 |
| 4030 | 3.6053050 | 4063 | 3.6088468 | 4096 | 3.6123599 |
| 4031 | 3.6054128 | 4064 | 3.6089537 | 4097 | 3.6124660 |
| 4032 | 3.6055205 | 4065 | 3.6090605 | 4098 | 3.6125720 |
| 4033 | 3.6056282 | 4066 | 3.6091674 | 4099 | 3.6126779 |
| 4034 | 3.6057359 | 4067 | 3.6092742 | 4100 | 3.6127839 |

N. 133.

14

4100



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4101 | 3.6128898 | 4134 | 3.6163705 | 4167 | 3.6198235 |
| 4102 | 3.6129957 | 4135 | 3.6164755 | 4168 | 3.6199277 |
| 4103 | 3.6131015 | 4136 | 3.6165805 | 4169 | 3.6200319 |
| 4104 | 3.6132073 | 4137 | 3.6166855 | 4170 | 3.6201361 |
| 4105 | 3.6133132 | 4138 | 3.6167905 | 4171 | 3.6202402 |
| 4106 | 3.6134189 | 4139 | 3.6168954 | 4172 | 3.6203443 |
| 4107 | 3.6135247 | 4140 | 3.6170003 | 4173 | 3.6204484 |
| 4108 | 3.6136304 | 4141 | 3.6171052 | 4174 | 3.6205524 |
| 4109 | 3.6137361 | 4142 | 3.6172101 | 4175 | 3.6206565 |
| 4110 | 3.6138418 | 4143 | 3.6173149 | 4176 | 3.6207605 |
| 4111 | 3.6139475 | 4144 | 3.6174197 | 4177 | 3.6208645 |
| 4112 | 3.6140531 | 4145 | 3.6175245 | 4178 | 3.6209684 |
| 4113 | 3.6141587 | 4146 | 3.6176293 | 4179 | 3.6210724 |
| 4114 | 3.6142643 | 4147 | 3.6177340 | 4180 | 3.6211763 |
| 4115 | 3.6143698 | 4148 | 3.6178387 | 4181 | 3.6212802 |
| 4116 | 3.6144754 | 4149 | 3.6179434 | 4182 | 3.6213840 |
| 4117 | 3.6145809 | 4150 | 3.6180481 | 4183 | 3.6214879 |
| 4118 | 3.6146863 | 4151 | 3.6181527 | 4184 | 3.6215917 |
| 4119 | 3.6147918 | 4152 | 3.6182573 | 4185 | 3.6216955 |
| 4120 | 3.6148972 | 4153 | 3.6183619 | 4186 | 3.6217992 |
| 4121 | 3.6150026 | 4154 | 3.6184665 | 4187 | 3.6219030 |
| 4122 | 3.6151080 | 4155 | 3.6185710 | 4188 | 3.6220067 |
| 4123 | 3.6152133 | 4156 | 3.6186755 | 4189 | 3.6221104 |
| 4124 | 3.6153187 | 4157 | 3.6187800 | 4190 | 3.6222140 |
| 4125 | 3.6154240 | 4158 | 3.6188845 | 4191 | 3.6223177 |
| 4126 | 3.6155292 | 4159 | 3.6189889 | 4192 | 3.6224213 |
| 4127 | 3.6156345 | 4160 | 3.6190933 | 4193 | 3.6225249 |
| 4128 | 3.6157397 | 4161 | 3.6191977 | 4194 | 3.6226284 |
| 4129 | 3.6158449 | 4162 | 3.6193021 | 4195 | 3.6227320 |
| 4130 | 3.6159501 | 4163 | 3.6194064 | 4196 | 3.6228355 |
| 4131 | 3.6160552 | 4164 | 3.6195107 | 4197 | 3.6229390 |
| 4132 | 3.6161603 | 4165 | 3.6196150 | 4198 | 3.6230424 |
| 4133 | 3.6162654 | 4166 | 3.6197193 | 4199 | 3.6231459 |
| 4134 | 3.6163705 | 4167 | 3.6198235 | 4200 | 3.6232493 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4201 | 3.6233527 | 4234 | 3.6267509 | 4267 | 3.6301226 |
| 4202 | 3.6234560 | 4235 | 3.6268534 | 4268 | 3.6302244 |
| 4203 | 3.6235594 | 4236 | 3.6269559 | 4269 | 3.6303262 |
| 4204 | 3.6236627 | 4237 | 3.6270585 | 4270 | 3.6304279 |
| 4205 | 3.6237660 | 4238 | 3.6271610 | 4271 | 3.6305296 |
| 4206 | 3.6238693 | 4239 | 3.6272634 | 4272 | 3.6306312 |
| 4207 | 3.6239725 | 4240 | 3.6273659 | 4273 | 3.6307329 |
| 4208 | 3.6240757 | 4241 | 3.6274683 | 4274 | 3.6308345 |
| 4209 | 3.6241789 | 4242 | 3.6275707 | 4275 | 3.6309361 |
| 4210 | 3.6242821 | 4243 | 3.6276730 | 4276 | 3.6310377 |
| 4211 | 3.6243852 | 4244 | 3.6277754 | 4277 | 3.6311392 |
| 4212 | 3.6244884 | 4245 | 3.6278777 | 4278 | 3.6312408 |
| 4213 | 3.6245915 | 4246 | 3.6279800 | 4279 | 3.6313423 |
| 4214 | 3.6246945 | 4247 | 3.6280823 | 4280 | 3.6314438 |
| 4215 | 3.6247976 | 4248 | 3.6281845 | 4281 | 3.6315452 |
| 4216 | 3.6249006 | 4249 | 3.6282867 | 4282 | 3.6316467 |
| 4217 | 3.6250036 | 4250 | 3.6283889 | 4283 | 3.6317481 |
| 4218 | 3.6251066 | 4251 | 3.6284911 | 4284 | 3.6318495 |
| 4219 | 3.6252095 | 4252 | 3.6285933 | 4285 | 3.6319508 |
| 4220 | 3.6253124 | 4253 | 3.6286954 | 4286 | 3.6320522 |
| 4221 | 3.6254153 | 4254 | 3.6287975 | 4287 | 3.6321535 |
| 4222 | 3.6255182 | 4255 | 3.6288996 | 4288 | 3.6322548 |
| 4223 | 3.6256211 | 4256 | 3.6290016 | 4289 | 3.6323560 |
| 4224 | 3.6257239 | 4257 | 3.6291036 | 4290 | 3.6324573 |
| 4225 | 3.6258267 | 4258 | 3.6292057 | 4291 | 3.6325585 |
| 4226 | 3.6259295 | 4259 | 3.6293076 | 4292 | 3.6326597 |
| 4227 | 3.6260322 | 4260 | 3.6294096 | 4293 | 3.6327609 |
| 4228 | 3.6261350 | 4261 | 3.6295115 | 4294 | 3.6328620 |
| 4229 | 3.6262377 | 4262 | 3.6296134 | 4295 | 3.6329632 |
| 4230 | 3.6263404 | 4263 | 3.6297153 | 4296 | 3.6330643 |
| 4231 | 3.6264430 | 4264 | 3.6298172 | 4297 | 3.6331654 |
| 4232 | 3.6265457 | 4265 | 3.6299190 | 4298 | 3.6332664 |
| 4233 | 3.6266483 | 4266 | 3.6300208 | 4299 | 3.6333674 |
| 4234 | 3.6267509 | 4267 | 3.6301226 | 4200 | 3.6334685 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4301 | 3.6335694 | 4334 | 3.6368889 | 4367 | 3.6401832 |
| 4302 | 3.6336704 | 4335 | 3.6369891 | 4368 | 3.6402826 |
| 4303 | 3.6337713 | 4336 | 3.6370893 | 4369 | 3.6403820 |
| 4304 | 3.6338723 | 4337 | 3.6371894 | 4370 | 3.6404814 |
| 4305 | 3.6339732 | 4338 | 3.6372895 | 4371 | 3.6405808 |
| 4306 | 3.6340740 | 4339 | 3.6373896 | 4372 | 3.6406802 |
| 4307 | 3.6341749 | 4340 | 3.6374897 | 4373 | 3.6407795 |
| 4308 | 3.6342757 | 4341 | 3.6375898 | 4374 | 3.6408788 |
| 4309 | 3.6343765 | 4342 | 3.6376898 | 4375 | 3.6409781 |
| 4310 | 3.6344773 | 4343 | 3.6377898 | 4376 | 3.6410773 |
| 4311 | 3.6345780 | 4344 | 3.6378898 | 4377 | 3.6411765 |
| 4312 | 3.6346788 | 4345 | 3.6379898 | 4378 | 3.6412758 |
| 4313 | 3.6347795 | 4346 | 3.6380897 | 4379 | 3.6413749 |
| 4314 | 3.6348801 | 4347 | 3.6381896 | 4380 | 3.6414741 |
| 4315 | 3.6349808 | 4348 | 3.6382895 | 4381 | 3.6415733 |
| 4316 | 3.6350814 | 4349 | 3.6383894 | 4382 | 3.6416724 |
| 4317 | 3.6351820 | 4350 | 3.6384893 | 4383 | 3.6417715 |
| 4318 | 3.6352826 | 4351 | 3.6385891 | 4384 | 3.6418705 |
| 4319 | 3.6353832 | 4352 | 3.6386889 | 4385 | 3.6419696 |
| 4320 | 3.6354837 | 4353 | 3.6387887 | 4386 | 3.6420686 |
| 4321 | 3.6355843 | 4354 | 3.6388884 | 4387 | 3.6421676 |
| 4322 | 3.6356848 | 4355 | 3.6389882 | 4388 | 3.6422666 |
| 4323 | 3.6357852 | 4356 | 3.6390879 | 4389 | 3.6423656 |
| 4324 | 3.6358857 | 4357 | 3.6391876 | 4390 | 3.6424645 |
| 4325 | 3.6359861 | 4358 | 3.6392872 | 4391 | 3.6425634 |
| 4326 | 3.6360865 | 4359 | 3.6393869 | 4392 | 3.6426623 |
| 4327 | 3.6361869 | 4360 | 3.6394865 | 4393 | 3.6427612 |
| 4328 | 3.6362872 | 4361 | 3.6395861 | 4394 | 3.6428601 |
| 4329 | 3.6363876 | 4362 | 3.6396857 | 4395 | 3.6429589 |
| 4330 | 3.6364879 | 4363 | 3.6397852 | 4396 | 3.6430577 |
| 4331 | 3.6365882 | 4364 | 3.6398847 | 4397 | 3.6431565 |
| 4332 | 3.6366884 | 4365 | 3.6399842 | 4398 | 3.6432552 |
| 4333 | 3.6367887 | 4366 | 3.6400837 | 4399 | 3.6433540 |
| 4334 | 3.6368889 | 4367 | 3.6401832 | 4400 | 3.6434527 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4401 | 3.6435514 | 4434 | 3.6467957 | 4467 | 3.6500160 |
| 4402 | 3.6436500 | 4435 | 3.6468936 | 4468 | 3.6501132 |
| 4403 | 3.6437487 | 4436 | 3.6469915 | 4469 | 3.6502104 |
| 4404 | 3.6438473 | 4437 | 3.6470894 | 4470 | 3.6503075 |
| 4405 | 3.6439459 | 4438 | 3.6471873 | 4471 | 3.6504047 |
| 4406 | 3.6440445 | 4439 | 3.6472851 | 4472 | 3.6505018 |
| 4407 | 3.6441430 | 4440 | 3.6473830 | 4473 | 3.6505989 |
| 4408 | 3.6442416 | 4441 | 3.6474808 | 4474 | 3.6506960 |
| 4409 | 3.6443401 | 4442 | 3.6475786 | 4475 | 3.6507930 |
| 4410 | 3.6444386 | 4443 | 3.6476763 | 4476 | 3.6508901 |
| 4411 | 3.6445371 | 4444 | 3.6477740 | 4477 | 3.6509871 |
| 4412 | 3.6446355 | 4445 | 3.6478718 | 4478 | 3.6510841 |
| 4413 | 3.6447339 | 4446 | 3.6479695 | 4479 | 3.6511811 |
| 4414 | 3.6448323 | 4447 | 3.6480671 | 4480 | 3.6512780 |
| 4415 | 3.6449307 | 4448 | 3.6481648 | 4481 | 3.6513749 |
| 4416 | 3.6450291 | 4449 | 3.6482624 | 4482 | 3.6514719 |
| 4417 | 3.6451274 | 4450 | 3.6483600 | 4483 | 3.6515687 |
| 4418 | 3.6452257 | 4451 | 3.6484576 | 4484 | 3.6516656 |
| 4419 | 3.6453240 | 4452 | 3.6485552 | 4485 | 3.6517624 |
| 4420 | 3.6454223 | 4453 | 3.6486527 | 4486 | 3.6518593 |
| 4421 | 3.6455205 | 4454 | 3.6487502 | 4487 | 3.6519561 |
| 4422 | 3.6456187 | 4455 | 3.6488477 | 4488 | 3.6520528 |
| 4423 | 3.6457169 | 4456 | 3.6489452 | 4489 | 3.6521496 |
| 4424 | 3.6458151 | 4457 | 3.6490426 | 4490 | 3.6522463 |
| 4425 | 3.6459133 | 4458 | 3.6491401 | 4491 | 3.6523431 |
| 4426 | 3.6460114 | 4459 | 3.6492375 | 4492 | 3.6524397 |
| 4427 | 3.6461095 | 4460 | 3.6493349 | 4493 | 3.6525364 |
| 4428 | 3.6462076 | 4461 | 3.6494322 | 4494 | 3.6526331 |
| 4429 | 3.6463057 | 4462 | 3.6495296 | 4495 | 3.6527297 |
| 4430 | 3.6464037 | 4463 | 3.6496269 | 4496 | 3.6528263 |
| 4431 | 3.6465017 | 4464 | 3.6497242 | 4497 | 3.6529229 |
| 4432 | 3.6465997 | 4465 | 3.6498215 | 4498 | 3.6530195 |
| 4433 | 3.6466977 | 4466 | 3.6499187 | 4499 | 3.6531160 |
| 4434 | 3.6467957 | 4467 | 3.6500160 | 4500 | 3.6532125 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4501 | 3.6533090 | 4534 | 3.6564815 | 4567 | 3.6596310 |
| 4502 | 3.6534055 | 4535 | 3.6565773 | 4568 | 3.6597261 |
| 4503 | 3.6535019 | 4536 | 3.6566730 | 4569 | 3.6598212 |
| 4504 | 3.6535984 | 4537 | 3.6567688 | 4570 | 3.6599162 |
| 4505 | 3.6536948 | 4538 | 3.6568645 | 4571 | 3.6600112 |
| 4506 | 3.6537912 | 4539 | 3.6569602 | 4572 | 3.6601062 |
| 4507 | 3.6538876 | 4540 | 3.6570559 | 4573 | 3.6602012 |
| 4508 | 3.6539839 | 4541 | 3.6571515 | 4574 | 3.6602962 |
| 4509 | 3.6540802 | 4542 | 3.6572471 | 4575 | 3.6603911 |
| 4510 | 3.6541765 | 4543 | 3.6573427 | 4576 | 3.6604860 |
| 4511 | 3.6542728 | 4544 | 3.6574383 | 4577 | 3.6605809 |
| 4512 | 3.6543691 | 4545 | 3.6575339 | 4578 | 3.6606758 |
| 4513 | 3.6544653 | 4546 | 3.6576294 | 4579 | 3.6607706 |
| 4514 | 3.6545616 | 4547 | 3.6577250 | 4580 | 3.6608655 |
| 4515 | 3.6546578 | 4548 | 3.6578205 | 4581 | 3.6609603 |
| 4516 | 3.6547539 | 4549 | 3.6579159 | 4582 | 3.6610551 |
| 4517 | 3.6548501 | 4550 | 3.6580114 | 4583 | 3.6611499 |
| 4518 | 3.6549462 | 4551 | 3.6581068 | 4584 | 3.6612446 |
| 4519 | 3.6550423 | 4552 | 3.6582023 | 4585 | 3.6613393 |
| 4520 | 3.6551384 | 4553 | 3.6582976 | 4586 | 3.6614340 |
| 4521 | 3.6552345 | 4554 | 3.6583930 | 4587 | 3.6615287 |
| 4522 | 3.6553306 | 4555 | 3.6584884 | 4588 | 3.6616234 |
| 4523 | 3.6554266 | 4556 | 3.6585837 | 4589 | 3.6617181 |
| 4524 | 3.6555226 | 4557 | 3.6586790 | 4590 | 3.6618127 |
| 4525 | 3.6556186 | 4558 | 3.6587743 | 4591 | 3.6619073 |
| 4526 | 3.6557145 | 4559 | 3.6588696 | 4592 | 3.6620019 |
| 4527 | 3.6558105 | 4560 | 3.6589648 | 4593 | 3.6620964 |
| 4528 | 3.6559064 | 4561 | 3.6590601 | 4594 | 3.6621910 |
| 4529 | 3.6560023 | 4562 | 3.6591553 | 4595 | 3.6622855 |
| 4530 | 3.6560982 | 4563 | 3.6592505 | 4596 | 3.6623800 |
| 4531 | 3.6561941 | 4564 | 3.6593456 | 4597 | 3.6624745 |
| 4532 | 3.6562899 | 4565 | 3.6594408 | 4598 | 3.6625690 |
| 4533 | 3.6563857 | 4566 | 3.6595359 | 4599 | 3.6626634 |
| 4534 | 3.6564815 | 4567 | 3.6596310 | 6500 | 3.6627578 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4601 | 3.6628522 | 4634 | 3.6659560 | 4667 | 3.6690378 |
| 4602 | 3.6629466 | 4635 | 3.6660497 | 4668 | 3.6691308 |
| 4603 | 3.6630410 | 4636 | 3.6661434 | 4669 | 3.6692239 |
| 4604 | 3.6631353 | 4637 | 3.6662371 | 4670 | 3.6693169 |
| 4605 | 3.6632296 | 4638 | 3.6663307 | 4671 | 3.6694099 |
| 4606 | 3.6633239 | 4639 | 3.6664244 | 4672 | 3.6695028 |
| 4607 | 3.6634182 | 4640 | 3.6665180 | 4673 | 3.6695958 |
| 4608 | 3.6635125 | 4641 | 3.6666116 | 4674 | 3.6696887 |
| 4609 | 3.6636067 | 4642 | 3.6667051 | 4675 | 3.6697816 |
| 4610 | 3.6637009 | 4643 | 3.6667987 | 4676 | 3.6698745 |
| 4611 | 3.6637951 | 4644 | 3.6668922 | 4677 | 3.6699674 |
| 4612 | 3.6638893 | 4645 | 3.6669857 | 4678 | 3.6700602 |
| 4613 | 3.6639835 | 4646 | 3.6670792 | 4679 | 3.6701530 |
| 4614 | 3.6640776 | 4647 | 3.6671727 | 4680 | 3.6702459 |
| 4615 | 3.6641717 | 4648 | 3.6672661 | 4681 | 3.6703386 |
| 4616 | 3.6642658 | 4649 | 3.6673595 | 4682 | 3.6704314 |
| 4617 | 3.6643599 | 4650 | 3.6674530 | 4683 | 3.6705242 |
| 4618 | 3.6644539 | 4651 | 3.6675463 | 4684 | 3.6706169 |
| 4619 | 3.6645480 | 4652 | 3.6676397 | 4685 | 3.6707096 |
| 4620 | 3.6646420 | 4653 | 3.6677331 | 4686 | 3.6708023 |
| 4621 | 3.6647360 | 4654 | 3.6678264 | 4687 | 3.6708950 |
| 4622 | 3.6648299 | 4655 | 3.6679197 | 4688 | 3.6709876 |
| 4623 | 3.6649239 | 4656 | 3.6680130 | 4689 | 3.6710802 |
| 4624 | 3.6650178 | 4657 | 3.6681062 | 4690 | 3.6711728 |
| 4625 | 3.6651117 | 4658 | 3.6681995 | 4691 | 3.6712654 |
| 4626 | 3.6652056 | 4659 | 3.6682927 | 4692 | 3.6713580 |
| 4627 | 3.6652995 | 4660 | 3.6683859 | 4693 | 3.6714506 |
| 4628 | 3.6653933 | 4661 | 3.6684791 | 4694 | 3.6715431 |
| 4629 | 3.6654872 | 4662 | 3.6685723 | 4695 | 3.6716356 |
| 4630 | 3.6655810 | 4663 | 3.6686654 | 4696 | 3.6717281 |
| 4631 | 3.6656748 | 4664 | 3.6687585 | 4697 | 3.6718206 |
| 4632 | 3.6657685 | 4665 | 3.6688516 | 4698 | 3.6719130 |
| 4633 | 3.6658623 | 4666 | 3.6689447 | 4699 | 3.6720054 |
| 4634 | 3.6659560 | 4667 | 3.6690378 | 4700 | 3.6720979 |



4700

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4701 | 3.6721903 | 4734 | 3.6752283 | 4767 | 3.6782452 |
| 4702 | 3.6722826 | 4735 | 3.6753200 | 4768 | 3.6783362 |
| 4703 | 3.6723750 | 4736 | 3.6754117 | 4769 | 3.6784273 |
| 4704 | 3.6724673 | 4737 | 3.6755034 | 4770 | 3.6785184 |
| 4705 | 3.6725596 | 4738 | 3.6755951 | 4771 | 3.6786094 |
| 4706 | 3.6726519 | 4739 | 3.6756867 | 4772 | 3.6787004 |
| 4707 | 3.6727442 | 4740 | 3.6757783 | 4773 | 3.6787914 |
| 4708 | 3.6728365 | 4741 | 3.6758700 | 4774 | 3.6788824 |
| 4709 | 3.6729287 | 4742 | 3.6759615 | 4775 | 3.6789734 |
| 4710 | 3.6730209 | 4743 | 3.6760531 | 4776 | 3.6790643 |
| 4711 | 3.6731131 | 4744 | 3.6761447 | 4777 | 3.6791552 |
| 4712 | 3.6732053 | 4745 | 3.6762362 | 4778 | 3.6792461 |
| 4713 | 3.6732974 | 4746 | 3.6763277 | 4779 | 3.6793370 |
| 4714 | 3.6733896 | 4747 | 3.6764192 | 4780 | 3.6794279 |
| 4715 | 3.6734817 | 4748 | 3.6765107 | 4781 | 3.6795187 |
| 4716 | 3.6735738 | 4749 | 3.6766022 | 4782 | 3.6796096 |
| 4717 | 3.6736659 | 4750 | 3.6766936 | 4783 | 3.6797004 |
| 4718 | 3.6737579 | 4751 | 3.6767850 | 4784 | 3.6797912 |
| 4719 | 3.6738500 | 4752 | 3.6768764 | 4785 | 3.6798819 |
| 4720 | 3.6739420 | 4753 | 3.6769678 | 4786 | 3.6799727 |
| 4721 | 3.6740340 | 4754 | 3.6770592 | 4787 | 3.6800634 |
| 4722 | 3.6741260 | 4755 | 3.6771505 | 4788 | 3.6801541 |
| 4723 | 3.6742179 | 4756 | 3.6772418 | 4789 | 3.6802448 |
| 4724 | 3.6743099 | 4757 | 3.6773332 | 4790 | 3.6803355 |
| 4725 | 3.6744018 | 4758 | 3.6774244 | 4791 | 3.6804262 |
| 4726 | 3.6744937 | 4759 | 3.6775157 | 4792 | 3.6805168 |
| 4727 | 3.6745856 | 4760 | 3.6776069 | 4793 | 3.6806074 |
| 4728 | 3.6746775 | 4761 | 3.6776982 | 4794 | 3.6806980 |
| 4729 | 3.6747693 | 4762 | 3.6777894 | 4795 | 3.6807886 |
| 4730 | 3.6748611 | 4763 | 3.6778806 | 4796 | 3.6808792 |
| 4731 | 3.6749529 | 4764 | 3.6779718 | 4797 | 3.6809697 |
| 4732 | 3.6750447 | 4765 | 3.6780629 | 4798 | 3.6810602 |
| 4733 | 3.6751365 | 4766 | 3.6781540 | 4799 | 3.6811507 |
| 4734 | 3.6752283 | 4767 | 3.6782452 | 4800 | 3.6812412 |

N. 140.

4800



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4801 | 3.6813317 | 4834 | 3.6843066 | 4867 | 3.6872613 |
| 4802 | 3.6814222 | 4835 | 3.6843965 | 4868 | 3.6873506 |
| 4803 | 3.6815126 | 4836 | 3.6844863 | 4869 | 3.6874398 |
| 4804 | 3.6816030 | 4837 | 3.6845761 | 4870 | 3.6875290 |
| 4805 | 3.6816934 | 4838 | 3.6846659 | 4871 | 3.6876181 |
| 4806 | 3.6817838 | 4839 | 3.6847556 | 4872 | 3.6877073 |
| 4807 | 3.6818741 | 4840 | 3.6848454 | 4873 | 3.6877964 |
| 4808 | 3.6819645 | 4841 | 3.6849351 | 4874 | 3.6878855 |
| 4809 | 3.6820548 | 4842 | 3.6850248 | 4875 | 3.6879746 |
| 4810 | 3.6821451 | 4843 | 3.6851145 | 4876 | 3.6880637 |
| 4811 | 3.6822354 | 4844 | 3.6852041 | 4877 | 3.6881528 |
| 4812 | 3.6823256 | 4845 | 3.6852938 | 4878 | 3.6882418 |
| 4813 | 3.6824159 | 4846 | 3.6853834 | 4879 | 3.6883308 |
| 4814 | 3.6825061 | 4847 | 3.6854730 | 4880 | 3.6884198 |
| 4815 | 3.6825963 | 4848 | 3.6855626 | 4881 | 3.6885088 |
| 4816 | 3.6826865 | 4849 | 3.6856522 | 4882 | 3.6885978 |
| 4817 | 3.6827766 | 4850 | 3.6857417 | 4883 | 3.6886867 |
| 4818 | 3.6828668 | 4851 | 3.6858313 | 4884 | 3.6887756 |
| 4819 | 3.6829569 | 4852 | 3.6859208 | 4885 | 3.6888646 |
| 4820 | 3.6830470 | 4853 | 3.6860103 | 4886 | 3.6889535 |
| 4821 | 3.6831371 | 4854 | 3.6860998 | 4887 | 3.6890423 |
| 4822 | 3.6832272 | 4855 | 3.6861892 | 4888 | 3.6891312 |
| 4823 | 3.6833173 | 4856 | 3.6862787 | 4889 | 3.6892200 |
| 4824 | 3.6834073 | 4857 | 3.6863681 | 4890 | 3.6893089 |
| 4825 | 3.6834973 | 4858 | 3.6864575 | 4891 | 3.6893977 |
| 4826 | 3.6835873 | 4859 | 3.6865469 | 4892 | 3.6894864 |
| 4827 | 3.6836773 | 4860 | 3.6866363 | 4893 | 3.6895752 |
| 4828 | 3.6837673 | 4861 | 3.6867256 | 4894 | 3.6896640 |
| 4829 | 3.6838572 | 4862 | 3.6868150 | 4895 | 3.6897527 |
| 4830 | 3.6839471 | 4863 | 3.6869043 | 4896 | 3.6898414 |
| 4831 | 3.6840370 | 4864 | 3.6869936 | 4897 | 3.6899301 |
| 4832 | 3.6841269 | 4865 | 3.6870828 | 4898 | 3.6900188 |
| 4833 | 3.6842168 | 4866 | 3.6871721 | 4899 | 3.6901074 |
| 4834 | 3.6843066 | 4867 | 3.6872613 | 4900 | 3.6901961 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2901 | 3.6902847 | 4934 | 3.6931991 | 4967 | 3.6960942 |
| 2902 | 3.6903733 | 4935 | 3.6932872 | 4968 | 3.6961816 |
| 2903 | 3.6904619 | 4936 | 3.6933752 | 4969 | 3.6962690 |
| 2904 | 3.6905505 | 4937 | 3.6934631 | 4970 | 3.6963564 |
| 2905 | 3.6906390 | 4938 | 3.6935511 | 4971 | 3.6964438 |
| 2906 | 3.6907275 | 4939 | 3.6936390 | 4972 | 3.6965311 |
| 2907 | 3.6908161 | 4940 | 3.6937269 | 4973 | 3.6966185 |
| 2908 | 3.6909046 | 4941 | 3.6938149 | 4974 | 3.6967058 |
| 2909 | 3.6909930 | 4942 | 3.6939027 | 4975 | 3.6967931 |
| 2910 | 3.6910815 | 4943 | 3.6939906 | 4976 | 3.6968804 |
| 2911 | 3.6911699 | 4944 | 3.6940785 | 4977 | 3.6969676 |
| 2912 | 3.6912584 | 4945 | 3.6941663 | 4978 | 3.6970549 |
| 2913 | 3.6913468 | 4946 | 3.6942541 | 4979 | 3.6971421 |
| 2914 | 3.6914352 | 4947 | 3.6943419 | 4980 | 3.6972293 |
| 2915 | 3.6915235 | 4948 | 3.6944297 | 4981 | 3.6973165 |
| 2916 | 3.6916119 | 4949 | 3.6945175 | 4982 | 3.6974037 |
| 2917 | 3.6917002 | 4950 | 3.6946052 | 4983 | 3.6974909 |
| 2918 | 3.6917885 | 4951 | 3.6946929 | 4984 | 3.6975780 |
| 2919 | 3.6918768 | 4952 | 3.6947806 | 4985 | 3.6976652 |
| 2920 | 3.6919651 | 4953 | 3.6948683 | 4986 | 3.6977523 |
| 2921 | 3.6920534 | 4954 | 3.6949560 | 4987 | 3.6978394 |
| 2922 | 3.6921416 | 4955 | 3.6950437 | 4988 | 3.6979264 |
| 2923 | 3.6922298 | 4956 | 3.6951313 | 4989 | 3.6980135 |
| 2924 | 3.6923180 | 4957 | 3.6952189 | 4990 | 3.6981005 |
| 2925 | 3.6924062 | 4958 | 3.6953065 | 4991 | 3.6981876 |
| 2926 | 3.6924944 | 4959 | 3.6953941 | 4992 | 3.6982746 |
| 2927 | 3.6925826 | 4960 | 3.6954817 | 4993 | 3.6983616 |
| 2928 | 3.6926707 | 4961 | 3.6955692 | 4994 | 3.6984485 |
| 2929 | 3.6927588 | 4962 | 3.6956568 | 4995 | 3.6985355 |
| 2930 | 3.6928469 | 4963 | 3.6957443 | 4996 | 3.6986224 |
| 2931 | 3.6929350 | 4964 | 3.6958318 | 4997 | 3.6987093 |
| 2932 | 3.6930231 | 4965 | 3.6959193 | 4998 | 3.6987963 |
| 2933 | 3.6931111 | 4966 | 3.6960067 | 4999 | 3.6988831 |
| 2934 | 3.6931991 | 4967 | 3.6960942 | 5000 | 3.6989700 |



5000

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5001 | 3.6990569 | 5034 | 3.7019132 | 5067 | 3.7047509 |
| 5002 | 3.6991437 | 5035 | 3.7019995 | 5068 | 3.7048366 |
| 5003 | 3.6992305 | 5036 | 3.7020857 | 5069 | 3.7049223 |
| 5004 | 3.6993173 | 5037 | 3.7021719 | 5070 | 3.7050080 |
| 5005 | 3.6994041 | 5038 | 3.7022582 | 5071 | 3.7050936 |
| 5006 | 3.6994908 | 5039 | 3.7023444 | 5072 | 3.7051792 |
| 5007 | 3.6995776 | 5040 | 3.7024305 | 5073 | 3.7052649 |
| 5008 | 3.6996643 | 5041 | 3.7025167 | 5074 | 3.7053505 |
| 5009 | 3.6997510 | 5042 | 3.7026028 | 5075 | 3.7054360 |
| 5010 | 3.6998377 | 5043 | 3.7026890 | 5076 | 3.7055216 |
| 5011 | 3.6999244 | 5044 | 3.7027751 | 5077 | 3.7056072 |
| 5012 | 3.7000111 | 5045 | 3.7028612 | 5078 | 3.7056927 |
| 5013 | 3.7000977 | 5046 | 3.7029472 | 5079 | 3.7057782 |
| 5014 | 3.7001843 | 5047 | 3.7030333 | 5080 | 3.7058637 |
| 5015 | 3.7002709 | 5048 | 3.7031193 | 5081 | 3.7059492 |
| 5016 | 3.7003575 | 5049 | 3.7032054 | 5082 | 3.7060347 |
| 5017 | 3.7004441 | 5050 | 3.7032914 | 5083 | 3.7061201 |
| 5018 | 3.7005307 | 5051 | 3.7033774 | 5084 | 3.7062055 |
| 5019 | 3.7006172 | 5052 | 3.7034633 | 5085 | 3.7062910 |
| 5020 | 3.7007037 | 5053 | 3.7035493 | 5086 | 3.7063764 |
| 5021 | 3.7007902 | 5054 | 3.7036352 | 5087 | 3.7064617 |
| 5022 | 3.7008767 | 5055 | 3.7037212 | 5088 | 3.7065471 |
| 5023 | 3.7009632 | 5056 | 3.7038071 | 5089 | 3.7066324 |
| 5024 | 3.7010496 | 5057 | 3.7038929 | 5090 | 3.7067178 |
| 5025 | 3.7011361 | 5058 | 3.7039788 | 5091 | 3.7068031 |
| 5026 | 3.7012225 | 5059 | 3.7040647 | 5092 | 3.7068884 |
| 5027 | 3.7013089 | 5060 | 3.7041505 | 5093 | 3.7069737 |
| 5028 | 3.7013953 | 5061 | 3.7042363 | 5094 | 3.7070589 |
| 5029 | 3.7014816 | 5062 | 3.7043221 | 5095 | 3.7071442 |
| 5030 | 3.7015680 | 5063 | 3.7044079 | 5096 | 3.7072294 |
| 5031 | 3.7016543 | 5064 | 3.7044937 | 5097 | 3.7073146 |
| 5032 | 3.7017406 | 5065 | 3.7045794 | 5098 | 3.7073998 |
| 5033 | 3.7018269 | 5066 | 3.7046652 | 5099 | 3.7074850 |
| 5034 | 3.7019132 | 5067 | 3.7047509 | 5100 | 3.7075702 |

N. 143.

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| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5101 | 3.7076553 | 5134 | 3.7104559 | 5167 | 3.7132385 |
| 5102 | 3.7077405 | 5135 | 3.7105404 | 5168 | 3.7133225 |
| 5103 | 3.7078256 | 5136 | 3.7106250 | 5169 | 3.7134065 |
| 5104 | 3.7079107 | 5137 | 3.7107096 | 5170 | 3.7134905 |
| 5105 | 3.7079957 | 5138 | 3.7107941 | 5171 | 3.7135745 |
| 5106 | 3.7080808 | 5139 | 3.7108786 | 5172 | 3.7136585 |
| 5107 | 3.7081659 | 5140 | 3.7109631 | 5173 | 3.7137425 |
| 5108 | 3.7082509 | 5141 | 3.7110476 | 5174 | 3.7138264 |
| 5109 | 3.7083359 | 5142 | 3.7111321 | 5175 | 3.7139104 |
| 5110 | 3.7084209 | 5143 | 3.7112165 | 5176 | 3.7139943 |
| 5111 | 3.7085059 | 5144 | 3.7113010 | 5177 | 3.7140782 |
| 5112 | 3.7085908 | 5145 | 3.7113854 | 5178 | 3.7141620 |
| 5113 | 3.7086758 | 5146 | 3.7114698 | 5179 | 3.7142459 |
| 5114 | 3.7087607 | 5147 | 3.7115542 | 5180 | 3.7143298 |
| 5115 | 3.7088456 | 5148 | 3.7116385 | 5181 | 3.7144136 |
| 5116 | 3.7089305 | 5149 | 3.7117229 | 5182 | 3.7144974 |
| 5117 | 3.7090154 | 5150 | 3.7118072 | 5183 | 3.7145812 |
| 5118 | 3.7091003 | 5151 | 3.7118915 | 5184 | 3.7146650 |
| 5119 | 3.7091851 | 5152 | 3.7119759 | 5185 | 3.7147488 |
| 5120 | 3.7092700 | 5153 | 3.7120601 | 5186 | 3.7148325 |
| 5121 | 3.7093548 | 5154 | 3.7121444 | 5187 | 3.7149162 |
| 5122 | 3.7094396 | 5155 | 3.7122287 | 5188 | 3.7150000 |
| 5123 | 3.7095244 | 5156 | 3.7123129 | 5189 | 3.7150837 |
| 5124 | 3.7096091 | 5157 | 3.7123971 | 5190 | 3.7151674 |
| 5125 | 3.7096939 | 5158 | 3.7124813 | 5191 | 3.7152510 |
| 5126 | 3.7097786 | 5159 | 3.7125655 | 5192 | 3.7153347 |
| 5127 | 3.7098633 | 5160 | 3.7126497 | 5193 | 3.7154183 |
| 5128 | 3.7099480 | 5161 | 3.7127339 | 5194 | 3.7155019 |
| 5129 | 3.7100327 | 5162 | 3.7128180 | 5195 | 3.7155856 |
| 5130 | 3.7101174 | 5163 | 3.7129021 | 5196 | 3.7156691 |
| 5131 | 3.7102020 | 5164 | 3.7129862 | 5197 | 3.7157527 |
| 5132 | 3.7102866 | 5165 | 3.7130703 | 5198 | 3.7158363 |
| 5133 | 3.7103713 | 5166 | 3.7131544 | 5199 | 3.7159198 |
| 5134 | 3.7104559 | 5167 | 3.7132385 | 5200 | 3.7160033 |

N. 144.

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| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5201 | 3.7160869 | 5234 | 3.7188337 | 5267 | 3.7215633 |
| 5202 | 3.7161703 | 5235 | 3.7189167 | 5268 | 3.7216458 |
| 5203 | 3.7162538 | 5236 | 3.7189996 | 5269 | 3.7217282 |
| 5204 | 3.7163373 | 5237 | 3.7190826 | 5270 | 3.7218106 |
| 5205 | 3.7164207 | 5238 | 3.7191655 | 5271 | 3.7218930 |
| 5206 | 3.7165042 | 5239 | 3.7192484 | 5272 | 3.7219754 |
| 5207 | 3.7165876 | 5240 | 3.7193313 | 5273 | 3.7220578 |
| 5208 | 3.7166710 | 5241 | 3.7194142 | 5274 | 3.7221401 |
| 5209 | 3.7167544 | 5242 | 3.7194970 | 5275 | 3.7222225 |
| 5210 | 3.7168377 | 5243 | 3.7195799 | 5276 | 3.7223048 |
| 5211 | 3.7169211 | 5244 | 3.7196627 | 5277 | 3.7223871 |
| 5212 | 3.7170044 | 5245 | 3.7197455 | 5278 | 3.7224694 |
| 5213 | 3.7170877 | 5246 | 3.7198283 | 5279 | 3.7225517 |
| 5214 | 3.7171710 | 5247 | 3.7199111 | 5280 | 3.7226339 |
| 5215 | 3.7172543 | 5248 | 3.7199938 | 5281 | 3.7227162 |
| 5216 | 3.7173376 | 5249 | 3.7200766 | 5282 | 3.7227984 |
| 5217 | 3.7174208 | 5250 | 3.7201593 | 5283 | 3.7228806 |
| 5218 | 3.7175041 | 5251 | 3.7202420 | 5284 | 3.7229628 |
| 5219 | 3.7175873 | 5252 | 3.7203247 | 5285 | 3.7230450 |
| 5220 | 3.7176705 | 5253 | 3.7204074 | 5286 | 3.7231272 |
| 5221 | 3.7177537 | 5254 | 3.7204901 | 5287 | 3.7232093 |
| 5222 | 3.7178369 | 5255 | 3.7205727 | 5288 | 3.7232914 |
| 5223 | 3.7179200 | 5256 | 3.7206554 | 5289 | 3.7233736 |
| 5224 | 3.7180032 | 5257 | 3.7207380 | 5290 | 3.7234557 |
| 5225 | 3.7180863 | 5258 | 3.7208206 | 5291 | 3.7235378 |
| 5226 | 3.7181694 | 5259 | 3.7209032 | 5292 | 3.7236198 |
| 5227 | 3.7182525 | 5260 | 3.7209857 | 5293 | 3.7237019 |
| 5228 | 3.7183356 | 5261 | 3.7210683 | 5294 | 3.7237839 |
| 5229 | 3.7184186 | 5262 | 3.7211508 | 5295 | 3.7238660 |
| 5230 | 3.7185017 | 5263 | 3.7212334 | 5296 | 3.7239480 |
| 5231 | 3.7185847 | 5264 | 3.7213159 | 5297 | 3.7240300 |
| 5232 | 3.7186677 | 5265 | 3.7213984 | 5298 | 3.7241120 |
| 5233 | 3.7187507 | 5266 | 3.7214809 | 5299 | 3.7241939 |
| 5234 | 3.7188337 | 5267 | 3.7215633 | 5300 | 3.7242759 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5301 | 3.7243578 | 5334 | 3.7270530 | 5367 | 3.7297316 |
| 5302 | 3.7244397 | 5335 | 3.7271344 | 5368 | 3.7298125 |
| 5303 | 3.7245216 | 5336 | 3.7272158 | 5369 | 3.7298934 |
| 5304 | 3.7246035 | 5337 | 3.7272972 | 5370 | 3.7299743 |
| 5305 | 3.7246854 | 5338 | 3.7273786 | 5371 | 3.7300551 |
| 5306 | 3.7247672 | 5339 | 3.7274599 | 5372 | 3.7301360 |
| 5307 | 3.7248491 | 5340 | 3.7275413 | 5373 | 3.7302168 |
| 5308 | 3.7249309 | 5341 | 3.7276226 | 5374 | 3.7302977 |
| 5309 | 3.7250127 | 5342 | 3.7277039 | 5375 | 3.7303785 |
| 5310 | 3.7250945 | 5343 | 3.7277852 | 5376 | 3.7304593 |
| 5311 | 3.7251763 | 5344 | 3.7278664 | 5377 | 3.7305400 |
| 5312 | 3.7252581 | 5345 | 3.7279477 | 5378 | 3.7306208 |
| 5313 | 3.7253398 | 5346 | 3.7280290 | 5379 | 3.7307015 |
| 5314 | 3.7254215 | 5347 | 3.7281102 | 5380 | 3.7307823 |
| 5315 | 3.7255033 | 5348 | 3.7281914 | 5381 | 3.7308630 |
| 5316 | 3.7255850 | 5349 | 3.7282726 | 5382 | 3.7309437 |
| 5317 | 3.7256667 | 5350 | 3.7283538 | 5383 | 3.7310244 |
| 5318 | 3.7257483 | 5351 | 3.7284349 | 5384 | 3.7311051 |
| 5319 | 3.7258300 | 5352 | 3.7285161 | 5385 | 3.7311857 |
| 5320 | 3.7259116 | 5353 | 3.7285972 | 5386 | 3.7312663 |
| 5321 | 3.7259933 | 5354 | 3.7286784 | 5387 | 3.7313470 |
| 5322 | 3.7260749 | 5355 | 3.7287595 | 5388 | 3.7314276 |
| 5323 | 3.7261565 | 5356 | 3.7288406 | 5389 | 3.7315082 |
| 5324 | 3.7262380 | 5357 | 3.7289216 | 5390 | 3.7315888 |
| 5325 | 3.7263196 | 5358 | 3.7290027 | 5391 | 3.7316693 |
| 5326 | 3.7264012 | 5359 | 3.7290838 | 5392 | 3.7317499 |
| 5327 | 3.7264827 | 5360 | 3.7291648 | 5393 | 3.7318304 |
| 5328 | 3.7265642 | 5361 | 3.7292458 | 5394 | 3.7319109 |
| 5329 | 3.7266457 | 5362 | 3.7293268 | 5395 | 3.7319914 |
| 5330 | 3.7267272 | 5363 | 3.7294078 | 5396 | 3.7320719 |
| 5331 | 3.7268087 | 5364 | 3.7294888 | 5397 | 3.7321524 |
| 5332 | 3.7268901 | 5365 | 3.7295697 | 5398 | 3.7322329 |
| 5333 | 3.7269716 | 5366 | 3.7296507 | 5399 | 3.7323133 |
| 5334 | 3.7270530 | 5367 | 3.7297316 | 5400 | 3.7323938 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5401 | 3.7324742 | 5434 | 3.7351196 | 5467 | 3.7377491 |
| 5402 | 3.7325546 | 5435 | 3.7351995 | 5468 | 3.7378285 |
| 5403 | 3.7326350 | 5436 | 3.7352794 | 5469 | 3.7379079 |
| 5404 | 3.7327153 | 5437 | 3.7353593 | 5470 | 3.7379873 |
| 5405 | 3.7327957 | 5438 | 3.7354392 | 5471 | 3.7380667 |
| 5406 | 3.7328760 | 5439 | 3.7355191 | 5472 | 3.7381461 |
| 5407 | 3.7329564 | 5440 | 3.7355989 | 5473 | 3.7382254 |
| 5408 | 3.7330367 | 5441 | 3.7356787 | 5474 | 3.7383048 |
| 5409 | 3.7331170 | 5442 | 3.7357585 | 5475 | 3.7383841 |
| 5410 | 3.7331973 | 5443 | 3.7358383 | 5476 | 3.7384634 |
| 5411 | 3.7332775 | 5444 | 3.7359181 | 5477 | 3.7385427 |
| 5412 | 3.7333578 | 5445 | 3.7359979 | 5478 | 3.7386220 |
| 5413 | 3.7334380 | 5446 | 3.7360776 | 5479 | 3.7387013 |
| 5414 | 3.7335182 | 5447 | 3.7361574 | 5480 | 3.7387806 |
| 5415 | 3.7335985 | 5448 | 3.7362371 | 5481 | 3.7388598 |
| 5416 | 3.7336787 | 5449 | 3.7363168 | 5482 | 3.7389390 |
| 5417 | 3.7337588 | 5450 | 3.7363965 | 5483 | 3.7390182 |
| 5418 | 3.7338390 | 5451 | 3.7364762 | 5484 | 3.7390974 |
| 5419 | 3.7339191 | 5452 | 3.7365558 | 5485 | 3.7391766 |
| 5420 | 3.7339993 | 5453 | 3.7366355 | 5486 | 3.7392558 |
| 5421 | 3.7340794 | 5454 | 3.7367151 | 5487 | 3.7393350 |
| 5422 | 3.7341595 | 5455 | 3.7367948 | 5488 | 3.7394141 |
| 5423 | 3.7342396 | 5456 | 3.7368744 | 5489 | 3.7394932 |
| 5424 | 3.7343197 | 5457 | 3.7369540 | 5490 | 3.7395723 |
| 5425 | 3.7343997 | 5458 | 3.7370335 | 5491 | 3.7396514 |
| 5426 | 3.7344798 | 5459 | 3.7371131 | 5492 | 3.7397305 |
| 5427 | 3.7345598 | 5460 | 3.7371926 | 5493 | 3.7398096 |
| 5428 | 3.7346398 | 5461 | 3.7372722 | 5494 | 3.7398887 |
| 5429 | 3.7347198 | 5462 | 3.7373517 | 5495 | 3.7399677 |
| 5430 | 3.7347998 | 5463 | 3.7374312 | 5496 | 3.7400467 |
| 5431 | 3.7348798 | 5464 | 3.7375107 | 5497 | 3.7401257 |
| 5432 | 3.7349598 | 5465 | 3.7375902 | 5498 | 3.7402047 |
| 5433 | 3.7350397 | 5466 | 3.7376696 | 5499 | 3.7402837 |
| 5434 | 3.7351196 | 5467 | 3.7377491 | 5500 | 3.7403627 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5501 | 3.7404416 | 5534 | 3.7430392 | 5567 | 3.7456212 |
| 5502 | 3.7405206 | 5535 | 3.7431176 | 5568 | 3.7456992 |
| 5503 | 3.7405995 | 5536 | 3.7431961 | 5569 | 3.7457777 |
| 5504 | 3.7406784 | 5537 | 3.7432745 | 5570 | 3.7458552 |
| 5505 | 3.7407573 | 5538 | 3.7433530 | 5571 | 3.7459332 |
| 5506 | 3.7408362 | 5539 | 3.7434314 | 5572 | 3.7460111 |
| 5507 | 3.7409151 | 5540 | 3.7435098 | 5573 | 3.7460890 |
| 5508 | 3.7409939 | 5541 | 3.7435881 | 5574 | 3.7461670 |
| 5509 | 3.7410728 | 5542 | 3.7436665 | 5575 | 3.7462449 |
| 5510 | 3.7411516 | 5543 | 3.7437449 | 5576 | 3.7463228 |
| 5511 | 3.7412304 | 5544 | 3.7438232 | 5577 | 3.7464006 |
| 5512 | 3.7413092 | 5545 | 3.7439015 | 5578 | 3.7464785 |
| 5513 | 3.7413880 | 5546 | 3.7439799 | 5579 | 3.7465564 |
| 5514 | 3.7414668 | 5547 | 3.7440582 | 5580 | 3.7466342 |
| 5515 | 3.7415455 | 5548 | 3.7441365 | 5581 | 3.7467120 |
| 5516 | 3.7416243 | 5549 | 3.7442147 | 5582 | 3.7467898 |
| 5517 | 3.7417030 | 5550 | 3.7442930 | 5583 | 3.7468676 |
| 5518 | 3.7417817 | 5551 | 3.7443712 | 5584 | 3.7469454 |
| 5519 | 3.7418604 | 5552 | 3.7444495 | 5585 | 3.7470232 |
| 5520 | 3.7419391 | 5553 | 3.7445277 | 5586 | 3.7471009 |
| 5521 | 3.7420177 | 5554 | 3.7446059 | 5587 | 3.7471787 |
| 5522 | 3.7420964 | 5555 | 3.7446841 | 5588 | 3.7472564 |
| 5523 | 3.7421750 | 5556 | 3.7447622 | 5589 | 3.7473341 |
| 5524 | 3.7422537 | 5557 | 3.7448404 | 5590 | 3.7474118 |
| 5525 | 3.7423323 | 5558 | 3.7449185 | 5591 | 3.7474895 |
| 5526 | 3.7424109 | 5559 | 3.7449967 | 5592 | 3.7475672 |
| 5527 | 3.7424895 | 5560 | 3.7450748 | 5593 | 3.7476448 |
| 5528 | 3.7425680 | 5561 | 3.7451529 | 5594 | 3.7477225 |
| 5529 | 3.7426466 | 5562 | 3.7452310 | 5595 | 3.7478001 |
| 5530 | 3.7427251 | 5563 | 3.7453091 | 5596 | 3.7478777 |
| 5531 | 3.7428037 | 5564 | 3.7453871 | 5597 | 3.7479553 |
| 5532 | 3.7428822 | 5565 | 3.7454652 | 5598 | 3.7480329 |
| 5533 | 3.7429607 | 5566 | 3.7455432 | 5599 | 3.7481105 |
| 5534 | 3.7430392 | 5567 | 3.7456212 | 5600 | 3.7481880 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5601 | 3.7482656 | 5634 | 3.7508168 | 5667 | 3.7533532 |
| 5602 | 3.7483431 | 5635 | 3.7508939 | 5668 | 3.7534298 |
| 5603 | 3.7484206 | 5636 | 3.7509710 | 5669 | 3.7535065 |
| 5604 | 3.7484981 | 5637 | 3.7510480 | 5670 | 3.7535831 |
| 5605 | 3.7485756 | 5638 | 3.7511251 | 5671 | 3.7536596 |
| 5606 | 3.7486531 | 5639 | 3.7512021 | 5672 | 3.7537362 |
| 5607 | 3.7487306 | 5640 | 3.7512791 | 5673 | 3.7538128 |
| 5608 | 3.7488080 | 5641 | 3.7513561 | 5674 | 3.7538893 |
| 5609 | 3.7488854 | 5642 | 3.7514331 | 5675 | 3.7539659 |
| 5610 | 3.7489629 | 5643 | 3.7515100 | 5676 | 3.7540424 |
| 5611 | 3.7490403 | 5644 | 3.7515870 | 5677 | 3.7541189 |
| 5612 | 3.7491177 | 5645 | 3.7516639 | 5678 | 3.7541954 |
| 5613 | 3.7491950 | 5646 | 3.7517409 | 5679 | 3.7542719 |
| 5614 | 3.7492724 | 5647 | 3.7518178 | 5680 | 3.7543483 |
| 5615 | 3.7493498 | 5648 | 3.7518947 | 5681 | 3.7544248 |
| 5616 | 3.7494271 | 5649 | 3.7519716 | 5682 | 3.7545012 |
| 5617 | 3.7495044 | 5650 | 3.7520484 | 5683 | 3.7545777 |
| 5618 | 3.7495817 | 5651 | 3.7521253 | 5684 | 3.7546541 |
| 5619 | 3.7496590 | 5652 | 3.7522022 | 5685 | 3.7547305 |
| 5620 | 3.7497363 | 5653 | 3.7522790 | 5686 | 3.7548069 |
| 5621 | 3.7498136 | 5654 | 3.7523558 | 5687 | 3.7548832 |
| 5622 | 3.7498908 | 5655 | 3.7524326 | 5688 | 3.7549596 |
| 5623 | 3.7499681 | 5656 | 3.7525094 | 5689 | 3.7550359 |
| 5624 | 3.7500453 | 5657 | 3.7525862 | 5690 | 3.7551123 |
| 5625 | 3.7501225 | 5658 | 3.7526629 | 5691 | 3.7551886 |
| 5626 | 3.7501997 | 5659 | 3.7527397 | 5692 | 3.7552649 |
| 5627 | 3.7502769 | 5660 | 3.7528164 | 5693 | 3.7553412 |
| 5628 | 3.7503541 | 5661 | 3.7528932 | 5694 | 3.7554175 |
| 5629 | 3.7504312 | 5662 | 3.7529699 | 5695 | 3.7554937 |
| 5630 | 3.7505084 | 5663 | 3.7530466 | 5696 | 3.7555700 |
| 5631 | 3.7505855 | 5664 | 3.7531232 | 5697 | 3.7556462 |
| 5632 | 3.7506626 | 5665 | 3.7531999 | 5698 | 3.7557224 |
| 5633 | 3.7507398 | 5666 | 3.7532766 | 5699 | 3.7557987 |
| 5634 | 3.7508168 | 5667 | 3.7533532 | 5700 | 3.7558749 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5701 | 3.7559510 | 5734 | 3.7584577 | 5767 | 3.7609500 |
| 5702 | 3.7560272 | 5735 | 3.7585334 | 5768 | 3.7610253 |
| 5703 | 3.7561034 | 5736 | 3.7586091 | 5769 | 3.7611006 |
| 5704 | 3.7561795 | 5737 | 3.7586848 | 5770 | 3.7611758 |
| 5705 | 3.7562556 | 5738 | 3.7587605 | 5771 | 3.7612511 |
| 5706 | 3.7563318 | 5739 | 3.7588362 | 5772 | 3.7613263 |
| 5707 | 3.7564079 | 5740 | 3.7589119 | 5773 | 3.7614016 |
| 5708 | 3.7564840 | 5741 | 3.7589875 | 5774 | 3.7614768 |
| 5709 | 3.7565600 | 5742 | 3.7590632 | 5775 | 3.7615520 |
| 5710 | 3.7566361 | 5743 | 3.7591388 | 5776 | 3.7616272 |
| 5711 | 3.7567122 | 5744 | 3.7592144 | 5777 | 3.7617024 |
| 5712 | 3.7567882 | 5745 | 3.7592900 | 5778 | 3.7617775 |
| 5713 | 3.7568642 | 5746 | 3.7593656 | 5779 | 3.7618527 |
| 5714 | 3.7569402 | 5747 | 3.7594412 | 5780 | 3.7619278 |
| 5715 | 3.7570162 | 5748 | 3.7595168 | 5781 | 3.7620030 |
| 5716 | 3.7570922 | 5749 | 3.7595923 | 5782 | 3.7620781 |
| 5717 | 3.7571682 | 5750 | 3.7596678 | 5783 | 3.7621532 |
| 5718 | 3.7572441 | 5751 | 3.7597434 | 5784 | 3.7622283 |
| 5719 | 3.7573201 | 5752 | 3.7598189 | 5785 | 3.7623034 |
| 5720 | 3.7573960 | 5753 | 3.7598944 | 5786 | 3.7623784 |
| 5721 | 3.7574719 | 5754 | 3.7599699 | 5787 | 3.7624535 |
| 5722 | 3.7575479 | 5755 | 3.7600453 | 5788 | 3.7625285 |
| 5723 | 3.7576237 | 5756 | 3.7601208 | 5789 | 3.7626035 |
| 5724 | 3.7576996 | 5757 | 3.7601962 | 5790 | 3.7626786 |
| 5725 | 3.7577755 | 5758 | 3.7602717 | 5791 | 3.7627536 |
| 5726 | 3.7578513 | 5759 | 3.7603471 | 5792 | 3.7628286 |
| 5727 | 3.7579272 | 5760 | 3.7604225 | 5793 | 3.7629035 |
| 5728 | 3.7580030 | 5761 | 3.7604979 | 5794 | 3.7629785 |
| 5729 | 3.7580788 | 5762 | 3.7605733 | 5795 | 3.7630534 |
| 5730 | 3.7581546 | 5763 | 3.7606486 | 5796 | 3.7631284 |
| 5731 | 3.7582304 | 5764 | 3.7607240 | 5797 | 3.7632033 |
| 5732 | 3.7583062 | 5765 | 3.7607993 | 5798 | 3.7632782 |
| 5733 | 3.7583819 | 5766 | 3.7608746 | 5799 | 3.7633531 |
| 5734 | 3.7584577 | 5767 | 3.7609500 | 5800 | 3.7634280 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5801 | 3.7635029 | 5834 | 3.7659664 | 5867 | 3.7684161 |
| 5802 | 3.7635777 | 5835 | 3.7660409 | 5868 | 3.7684901 |
| 5803 | 3.7636526 | 5836 | 3.7661153 | 5869 | 3.7685641 |
| 5804 | 3.7637274 | 5837 | 3.7661897 | 5870 | 3.7686381 |
| 5805 | 3.7638022 | 5838 | 3.7662641 | 5871 | 3.7687121 |
| 5806 | 3.7638770 | 5839 | 3.7663385 | 5872 | 3.7687860 |
| 5807 | 3.7639518 | 5840 | 3.7664128 | 5873 | 3.7688600 |
| 5808 | 3.7640266 | 5841 | 3.7664872 | 5874 | 3.7689339 |
| 5809 | 3.7641014 | 5842 | 3.7665616 | 5875 | 3.7690079 |
| 5810 | 3.7641761 | 5843 | 3.7666359 | 5876 | 3.7690818 |
| 5811 | 3.7642509 | 5844 | 3.7667102 | 5877 | 3.7691557 |
| 5812 | 3.7643256 | 5845 | 3.7667845 | 5878 | 3.7692296 |
| 5813 | 3.7644003 | 5846 | 3.7668588 | 5879 | 3.7693035 |
| 5814 | 3.7644750 | 5847 | 3.7669331 | 5880 | 3.7693773 |
| 5815 | 3.7645497 | 5848 | 3.7670074 | 5881 | 3.7694512 |
| 5816 | 3.7646244 | 5849 | 3.7670816 | 5882 | 3.7695250 |
| 5817 | 3.7646991 | 5850 | 3.7671559 | 5883 | 3.7695988 |
| 5818 | 3.7647737 | 5851 | 3.7672301 | 5884 | 3.7696727 |
| 5819 | 3.7648484 | 5852 | 3.7673043 | 5885 | 3.7697465 |
| 5820 | 3.7649230 | 5853 | 3.7673785 | 5886 | 3.7698203 |
| 5821 | 3.7649976 | 5854 | 3.7674527 | 5887 | 3.7698940 |
| 5822 | 3.7650722 | 5855 | 3.7675269 | 5888 | 3.7699678 |
| 5823 | 3.7651468 | 5856 | 3.7676011 | 5889 | 3.7700416 |
| 5824 | 3.7652214 | 5857 | 3.7676752 | 5890 | 3.7701153 |
| 5825 | 3.7652959 | 5858 | 3.7677494 | 5891 | 3.7701890 |
| 5826 | 3.7653705 | 5859 | 3.7678235 | 5892 | 3.7702627 |
| 5827 | 3.7654450 | 5860 | 3.7678976 | 5893 | 3.7703364 |
| 5828 | 3.7654195 | 5861 | 3.7679717 | 5894 | 3.7704101 |
| 5829 | 3.7655941 | 5862 | 3.7680458 | 5895 | 3.7704838 |
| 5830 | 3.7656686 | 5863 | 3.7681199 | 5896 | 3.7705575 |
| 5831 | 3.7657430 | 5864 | 3.7681940 | 5897 | 3.7706311 |
| 5832 | 3.7658175 | 5865 | 3.7682680 | 5898 | 3.7707048 |
| 5833 | 3.7658920 | 5866 | 3.7683421 | 5899 | 3.7707784 |
| 5834 | 3.7659664 | 5867 | 3.7684161 | 5900 | 3.7708520 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5901 | 3.7709256 | 5934 | 3.7733475 | 5967 | 3.7757560 |
| 5902 | 3.7709992 | 5935 | 3.7734207 | 5968 | 3.7758288 |
| 5903 | 3.7710728 | 5936 | 3.7734939 | 5969 | 3.7759016 |
| 5904 | 3.7711463 | 5937 | 3.7735670 | 5970 | 3.7759743 |
| 5905 | 3.7712199 | 5938 | 3.7736402 | 5971 | 3.7760471 |
| 5906 | 3.7712934 | 5939 | 3.7737133 | 5972 | 3.7761198 |
| 5907 | 3.7713670 | 5940 | 3.7737864 | 5973 | 3.7761925 |
| 5908 | 3.7714405 | 5941 | 3.7738596 | 5974 | 3.7762652 |
| 5909 | 3.7715140 | 5942 | 3.7739326 | 5975 | 3.7763379 |
| 5910 | 3.7715875 | 5943 | 3.7740057 | 5976 | 3.7764106 |
| 5911 | 3.7716610 | 5944 | 3.7740788 | 5977 | 3.7764833 |
| 5912 | 3.7717344 | 5945 | 3.7741519 | 5978 | 3.7765559 |
| 5913 | 3.7718079 | 5946 | 3.7742249 | 5979 | 3.7766286 |
| 5914 | 3.7718813 | 5947 | 3.7742979 | 5980 | 3.7767012 |
| 5915 | 3.7719547 | 5948 | 3.7743710 | 5981 | 3.7767738 |
| 5916 | 3.7720282 | 5949 | 3.7744440 | 5982 | 3.7768464 |
| 5917 | 3.7721016 | 5950 | 3.7745170 | 5983 | 3.7769190 |
| 5918 | 3.7721750 | 5951 | 3.7745899 | 5984 | 3.7769916 |
| 5919 | 3.7722483 | 5952 | 3.7746629 | 5985 | 3.7770642 |
| 5920 | 3.7723217 | 5953 | 3.7747359 | 5986 | 3.7771367 |
| 5921 | 3.7723951 | 5954 | 3.7748088 | 5987 | 3.7772093 |
| 5922 | 3.7724684 | 5955 | 3.7748818 | 5988 | 3.7772818 |
| 5923 | 3.7725417 | 5956 | 3.7749547 | 5989 | 3.7773543 |
| 5924 | 3.7726150 | 5957 | 3.7750276 | 5990 | 3.7774268 |
| 5925 | 3.7726884 | 5958 | 3.7751005 | 5991 | 3.7774993 |
| 5926 | 3.7727616 | 5959 | 3.7751734 | 5992 | 3.7775718 |
| 5927 | 3.7728349 | 5960 | 3.7752463 | 5993 | 3.7776443 |
| 5928 | 3.7729082 | 5961 | 3.7753191 | 5994 | 3.7777167 |
| 5929 | 3.7729814 | 5962 | 3.7753920 | 5995 | 3.7777892 |
| 5930 | 3.7730547 | 5963 | 3.7754648 | 5996 | 3.7778616 |
| 5931 | 3.7731279 | 5964 | 3.7755376 | 5997 | 3.7779340 |
| 5932 | 3.7732011 | 5965 | 3.7756104 | 5998 | 3.7780065 |
| 5933 | 3.7732743 | 5966 | 3.7756832 | 5999 | 3.7780789 |
| 5934 | 3.7733475 | 5967 | 3.7757560 | 6000 | 3.7781512 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6001 | 3.7782236 | 6034 | 3.7806053 | 6067 | 3.7829740 |
| 6002 | 3.7782960 | 6035 | 3.7806773 | 6068 | 3.7830456 |
| 6003 | 3.7783683 | 6036 | 3.7807492 | 6069 | 3.7831171 |
| 6004 | 3.7784407 | 6037 | 3.7808212 | 6070 | 3.7831887 |
| 6005 | 3.7785130 | 6038 | 3.7808931 | 6071 | 3.7832602 |
| 6006 | 3.7785853 | 6039 | 3.7809650 | 6072 | 3.7833318 |
| 6007 | 3.7786576 | 6040 | 3.7810369 | 6073 | 3.7834033 |
| 6008 | 3.7787299 | 6041 | 3.7811088 | 6074 | 3.7834748 |
| 6009 | 3.7788022 | 6042 | 3.7811807 | 6075 | 3.7835463 |
| 6010 | 3.7788745 | 6043 | 3.7812526 | 6076 | 3.7836178 |
| 6011 | 3.7789467 | 6044 | 3.7813245 | 6077 | 3.7836892 |
| 6012 | 3.7790190 | 6045 | 3.7813963 | 6078 | 3.7837607 |
| 6013 | 3.7790912 | 6046 | 3.7814681 | 6079 | 3.7838321 |
| 6014 | 3.7791634 | 6047 | 3.7815400 | 6080 | 3.7839036 |
| 6015 | 3.7792356 | 6048 | 3.7816118 | 6081 | 3.7839750 |
| 6016 | 3.7793078 | 6049 | 3.7816836 | 6082 | 3.7840464 |
| 6017 | 3.7793800 | 6050 | 3.7817554 | 6083 | 3.7841178 |
| 6018 | 3.7794522 | 6051 | 3.7818272 | 6084 | 3.7841892 |
| 6019 | 3.7795243 | 6052 | 3.7818989 | 6085 | 3.7842606 |
| 6020 | 3.7795965 | 6053 | 3.7819707 | 6086 | 3.7843319 |
| 6021 | 3.7796686 | 6054 | 3.7820424 | 6087 | 3.7844033 |
| 6022 | 3.7797408 | 6055 | 3.7821141 | 6088 | 3.7844746 |
| 6023 | 3.7798129 | 6056 | 3.7821859 | 6089 | 3.7845460 |
| 6024 | 3.7798850 | 6057 | 3.7822576 | 6090 | 3.7846173 |
| 6025 | 3.7799571 | 6058 | 3.7823293 | 6091 | 3.7846886 |
| 6026 | 3.7800291 | 6059 | 3.7824010 | 6092 | 3.7847599 |
| 6027 | 3.7801012 | 6060 | 3.7824726 | 6093 | 3.7848312 |
| 6028 | 3.7801732 | 6061 | 3.7825443 | 6094 | 3.7849024 |
| 6029 | 3.7802453 | 6062 | 3.7826159 | 6095 | 3.7849737 |
| 6030 | 3.7803173 | 6063 | 3.7826876 | 6096 | 3.7850450 |
| 6031 | 3.7803893 | 6064 | 3.7827592 | 6097 | 3.7851162 |
| 6032 | 3.7804613 | 6065 | 3.7828308 | 6098 | 3.7851874 |
| 6033 | 3.7805333 | 6066 | 3.7829024 | 6099 | 3.7852586 |
| 6034 | 3.7806053 | 6067 | 3.7829740 | 6100 | 3.7853298 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6101 | 3.7854010 | 6134 | 3.7877438 | 6167 | 3.7900739 |
| 6102 | 3.7854722 | 6135 | 3.7878146 | 6168 | 3.7901444 |
| 6103 | 3.7855434 | 6136 | 3.7878853 | 6169 | 3.7902148 |
| 6104 | 3.7856145 | 6137 | 3.7879561 | 6170 | 3.7902852 |
| 6105 | 3.7856857 | 6138 | 3.7880269 | 6171 | 3.7903555 |
| 6106 | 3.7857568 | 6139 | 3.7880976 | 6172 | 3.7904259 |
| 6107 | 3.7858279 | 6140 | 3.7881684 | 6173 | 3.7904963 |
| 6108 | 3.7858990 | 6141 | 3.7882391 | 6174 | 3.7905666 |
| 6109 | 3.7859701 | 6142 | 3.7883098 | 6175 | 3.7906370 |
| 6110 | 3.7860412 | 6143 | 3.7883805 | 6176 | 3.7907073 |
| 6111 | 3.7861123 | 6144 | 3.7884512 | 6177 | 3.7907776 |
| 6112 | 3.7861833 | 6145 | 3.7885219 | 6178 | 3.7908479 |
| 6113 | 3.7862544 | 6146 | 3.7885926 | 6179 | 3.7909182 |
| 6114 | 3.7863254 | 6147 | 3.7886632 | 6180 | 3.7909885 |
| 6115 | 3.7863965 | 6148 | 3.7887339 | 6181 | 3.7910587 |
| 6116 | 3.7864675 | 6149 | 3.7888045 | 6182 | 3.7911290 |
| 6117 | 3.7865385 | 6150 | 3.7888751 | 6183 | 3.7911992 |
| 6118 | 3.7866095 | 6151 | 3.7889457 | 6184 | 3.7912695 |
| 6119 | 3.7866805 | 6152 | 3.7890163 | 6185 | 3.7913397 |
| 6120 | 3.7867514 | 6153 | 3.7890869 | 6186 | 3.7914099 |
| 6121 | 3.7868224 | 6154 | 3.7891575 | 6187 | 3.7914801 |
| 6122 | 3.7868933 | 6155 | 3.7892281 | 6188 | 3.7915503 |
| 6123 | 3.7869643 | 6156 | 3.7892986 | 6189 | 3.7916205 |
| 6124 | 3.7870352 | 6157 | 3.7893692 | 6190 | 3.7916906 |
| 6125 | 3.7871061 | 6158 | 3.7894397 | 6191 | 3.7917608 |
| 6126 | 3.7871770 | 6159 | 3.7895102 | 6192 | 3.7918309 |
| 6127 | 3.7872479 | 6160 | 3.7895807 | 6193 | 3.7919011 |
| 6128 | 3.7873188 | 6161 | 3.7896512 | 6194 | 3.7919712 |
| 6129 | 3.7873896 | 6162 | 3.7897217 | 6195 | 3.7920413 |
| 6130 | 3.7874605 | 6163 | 3.7897922 | 6196 | 3.7921114 |
| 6131 | 3.7875313 | 6164 | 3.7898626 | 6197 | 3.7921815 |
| 6132 | 3.7876021 | 6165 | 3.7899331 | 6198 | 3.7922516 |
| 6133 | 3.7876730 | 6166 | 3.7900035 | 6199 | 3.7923216 |
| 6134 | 3.7877438 | 6167 | 3.7900739 | 6200 | 3.7923917 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6201 | 3.7924617 | 6234 | 3.7947668 | 6267 | 3.7970597 |
| 6202 | 3.7925318 | 6235 | 3.7948365 | 6268 | 3.7971290 |
| 6203 | 3.7926018 | 6236 | 3.7949061 | 6269 | 3.7971983 |
| 6204 | 3.7926718 | 6237 | 3.7949757 | 6270 | 3.7972675 |
| 6205 | 3.7927418 | 6238 | 3.7950454 | 6271 | 3.7973368 |
| 6206 | 3.7928118 | 6239 | 3.7951150 | 6272 | 3.7974060 |
| 6207 | 3.7928817 | 6240 | 3.7951846 | 6273 | 3.7974753 |
| 6208 | 3.7929517 | 6241 | 3.7952542 | 6274 | 3.7975445 |
| 6209 | 3.7930217 | 6242 | 3.7953238 | 6275 | 3.7976137 |
| 6210 | 3.7930916 | 6243 | 3.7953933 | 6276 | 3.7976829 |
| 6211 | 3.7931615 | 6244 | 3.7954629 | 6277 | 3.7977521 |
| 6212 | 3.7932314 | 6245 | 3.7955324 | 6278 | 3.7978213 |
| 6213 | 3.7933014 | 6246 | 3.7956020 | 6279 | 3.7978905 |
| 6214 | 3.7933712 | 6247 | 3.7956715 | 6280 | 3.7979596 |
| 6215 | 3.7934411 | 6248 | 3.7957410 | 6281 | 3.7980288 |
| 6216 | 3.7935110 | 6249 | 3.7958105 | 6282 | 3.7980979 |
| 6217 | 3.7935809 | 6250 | 3.7958800 | 6283 | 3.7981671 |
| 6218 | 3.7936507 | 6251 | 3.7959495 | 6284 | 3.7982362 |
| 6219 | 3.7937206 | 6252 | 3.7960190 | 6285 | 3.7983053 |
| 6220 | 3.7937904 | 6253 | 3.7960884 | 6286 | 3.7983744 |
| 6221 | 3.7938602 | 6254 | 3.7961579 | 6287 | 3.7984435 |
| 6222 | 3.7939300 | 6255 | 3.7962273 | 6288 | 3.7985125 |
| 6223 | 3.7939998 | 6256 | 3.7962967 | 6289 | 3.7985816 |
| 6224 | 3.7940696 | 6257 | 3.7963662 | 6290 | 3.7986506 |
| 6225 | 3.7941394 | 6258 | 3.7964356 | 6291 | 3.7987197 |
| 6226 | 3.7942091 | 6259 | 3.7965050 | 6292 | 3.7987887 |
| 6227 | 3.7942789 | 6260 | 3.7965743 | 6293 | 3.7988577 |
| 6228 | 3.7943486 | 6261 | 3.7966437 | 6294 | 3.7989267 |
| 6229 | 3.7944183 | 6262 | 3.7967131 | 6295 | 3.7989957 |
| 6230 | 3.7944880 | 6263 | 3.7967824 | 6296 | 3.7990647 |
| 6231 | 3.7945578 | 6264 | 3.7968517 | 6297 | 3.7991337 |
| 6232 | 3.7946274 | 6265 | 3.7969211 | 6298 | 3.7992027 |
| 6233 | 3.7946971 | 6266 | 3.7969904 | 6299 | 3.7992716 |
| 6234 | 3.7947668 | 6267 | 3.7970597 | 6300 | 3.7993405 |

N. 155.

6300

21271

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21271



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6301 | 3.7994095 | 6334 | 3.8016781 | 6367 | 3.8039348 |
| 6302 | 3.7994784 | 6335 | 3.8017466 | 6368 | 3.8040031 |
| 6303 | 3.7995473 | 6336 | 3.8018152 | 6369 | 3.8040712 |
| 6304 | 3.7996162 | 6337 | 3.8018837 | 6370 | 3.8041394 |
| 6305 | 3.7996851 | 6338 | 3.8019522 | 6371 | 3.8042076 |
| 6306 | 3.7997540 | 6339 | 3.8020208 | 6372 | 3.8042758 |
| 6307 | 3.7998228 | 6340 | 3.8020893 | 6373 | 3.8043439 |
| 6308 | 3.7998917 | 6341 | 3.8021578 | 6374 | 3.8044121 |
| 6309 | 3.7999605 | 6342 | 3.8022262 | 6375 | 3.8044802 |
| 6310 | 3.8000294 | 6343 | 3.8022947 | 6376 | 3.8045483 |
| 6311 | 3.8000982 | 6344 | 3.8023632 | 6377 | 3.8046164 |
| 6312 | 3.8001670 | 6345 | 3.8024316 | 6378 | 3.8046845 |
| 6313 | 3.8002358 | 6346 | 3.8025001 | 6379 | 3.8047526 |
| 6314 | 3.8003046 | 6347 | 3.8025685 | 6380 | 3.8048207 |
| 6315 | 3.8003734 | 6348 | 3.8026369 | 6381 | 3.8048887 |
| 6316 | 3.8004421 | 6349 | 3.8027053 | 6382 | 3.8049568 |
| 6317 | 3.8005109 | 6350 | 3.8027737 | 6383 | 3.8050248 |
| 6318 | 3.8005796 | 6351 | 3.8028421 | 6384 | 3.8050929 |
| 6319 | 3.8006484 | 6352 | 3.8029105 | 6385 | 3.8051609 |
| 6320 | 3.8007171 | 6353 | 3.8029789 | 6386 | 3.8052289 |
| 6321 | 3.8007858 | 6354 | 3.8030472 | 6387 | 3.8052969 |
| 6322 | 3.8008545 | 6355 | 3.8031156 | 6388 | 3.8053649 |
| 6323 | 3.8009232 | 6356 | 3.8031839 | 6389 | 3.8054329 |
| 6324 | 3.8009919 | 6357 | 3.8032522 | 6390 | 3.8055009 |
| 6325 | 3.8010605 | 6358 | 3.8033205 | 6391 | 3.8055688 |
| 6326 | 3.8011292 | 6359 | 3.8033888 | 6392 | 3.8056368 |
| 6327 | 3.8011978 | 6360 | 3.8034571 | 6393 | 3.8057047 |
| 6328 | 3.8012665 | 6361 | 3.8035254 | 6394 | 3.8057726 |
| 6329 | 3.8013351 | 6362 | 3.8035937 | 6395 | 3.8058405 |
| 6330 | 3.8014037 | 6363 | 3.8036619 | 6396 | 3.8059085 |
| 6331 | 3.8014723 | 6364 | 3.8037302 | 6397 | 3.8059764 |
| 6332 | 3.8015409 | 6365 | 3.8037984 | 6398 | 3.8060442 |
| 6333 | 3.8016095 | 6366 | 3.8038666 | 6399 | 3.8061121 |
| 6334 | 3.8016781 | 6367 | 3.8039348 | 6400 | 3.8061800 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6401 | 3.8062478 | 6434 | 3.8084811 | 6467 | 3.8107029 |
| 6402 | 3.8063157 | 6435 | 3.8085486 | 6468 | 3.8107700 |
| 6403 | 3.8063835 | 6436 | 3.8086160 | 6469 | 3.8108371 |
| 6404 | 3.8064513 | 6437 | 3.8086835 | 6470 | 3.8109043 |
| 6405 | 3.8065191 | 6438 | 3.8087510 | 6471 | 3.8109714 |
| 6406 | 3.8065869 | 6439 | 3.8088184 | 6472 | 3.8110385 |
| 6407 | 3.8066547 | 6440 | 3.8088859 | 6473 | 3.8111056 |
| 6408 | 3.8067225 | 6441 | 3.8089533 | 6474 | 3.8111722 |
| 6409 | 3.8067903 | 6442 | 3.8090207 | 6475 | 3.8112398 |
| 6410 | 3.8068580 | 6443 | 3.8090881 | 6476 | 3.8113068 |
| 6411 | 3.8069258 | 6444 | 3.8091555 | 6477 | 3.8113739 |
| 6412 | 3.8069935 | 6445 | 3.8092229 | 6478 | 3.8114409 |
| 6413 | 3.8070612 | 6446 | 3.8092903 | 6479 | 3.8115080 |
| 6414 | 3.8071290 | 6447 | 3.8093577 | 6480 | 3.8115750 |
| 6415 | 3.8071967 | 6448 | 3.8094250 | 6481 | 3.8116420 |
| 6416 | 3.8072644 | 6449 | 3.8094924 | 6482 | 3.8117090 |
| 6417 | 3.8073320 | 6450 | 3.8095597 | 6483 | 3.8117760 |
| 6418 | 3.8073997 | 6451 | 3.8096270 | 6484 | 3.8118430 |
| 6419 | 3.8074674 | 6452 | 3.8096944 | 6485 | 3.8119100 |
| 6420 | 3.8075350 | 6453 | 3.8097617 | 6486 | 3.8119769 |
| 6421 | 3.8076027 | 6454 | 3.8098290 | 6487 | 3.8120439 |
| 6422 | 3.8076703 | 6455 | 3.8098962 | 6488 | 3.8121108 |
| 6423 | 3.8077379 | 6456 | 3.8099635 | 6489 | 3.8121778 |
| 6424 | 3.8078055 | 6457 | 3.8100308 | 6490 | 3.8122447 |
| 6425 | 3.8078731 | 6458 | 3.8100980 | 6491 | 3.8123116 |
| 6426 | 3.8079407 | 6459 | 3.8101653 | 6492 | 3.8123785 |
| 6427 | 3.8080083 | 6460 | 3.8102325 | 6493 | 3.8124454 |
| 6428 | 3.8080759 | 6461 | 3.8102997 | 6494 | 3.8125123 |
| 6429 | 3.8081434 | 6462 | 3.8103670 | 6495 | 3.8125792 |
| 6430 | 3.8082110 | 6463 | 3.8104342 | 6496 | 3.8126460 |
| 6431 | 3.8082785 | 6464 | 3.8105013 | 6497 | 3.8127129 |
| 6432 | 3.8083460 | 6465 | 3.8105685 | 6498 | 3.8127797 |
| 6433 | 3.8084136 | 6466 | 3.8106357 | 6499 | 3.8128465 |
| 6434 | 3.8084811 | 6467 | 3.8107029 | 6500 | 3.8129134 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6501 | 3.8129802 | 6534 | 3.8151791 | 6567 | 3.8173670 |
| 6502 | 3.8130470 | 6535 | 3.8152456 | 6568 | 3.8174331 |
| 6503 | 3.8131138 | 6536 | 3.8153120 | 6569 | 3.8174999 |
| 6504 | 3.8131805 | 6537 | 3.8153785 | 6570 | 3.8175654 |
| 6505 | 3.8132473 | 6538 | 3.8154449 | 6571 | 3.8176315 |
| 6506 | 3.8133141 | 6539 | 3.8155113 | 6572 | 3.8176976 |
| 6507 | 3.8133808 | 6540 | 3.8155777 | 6573 | 3.8177636 |
| 6508 | 3.8134475 | 6541 | 3.8156441 | 6574 | 3.8178297 |
| 6509 | 3.8135143 | 6542 | 3.8157105 | 6575 | 3.8178958 |
| 6510 | 3.8135810 | 6543 | 3.8157769 | 6576 | 3.8179618 |
| 6511 | 3.8136477 | 6544 | 3.8158433 | 6577 | 3.8180278 |
| 6512 | 3.8137144 | 6545 | 3.8159096 | 6578 | 3.8180939 |
| 6513 | 3.8137811 | 6546 | 3.8159760 | 6579 | 3.8181599 |
| 6514 | 3.8138478 | 6547 | 3.8160423 | 6580 | 3.8182259 |
| 6515 | 3.8139144 | 6548 | 3.8161087 | 6581 | 3.8182919 |
| 6516 | 3.8139811 | 6549 | 3.8161750 | 6582 | 3.8183579 |
| 6517 | 3.8140477 | 6550 | 3.8162413 | 6583 | 3.8184239 |
| 6518 | 3.8141144 | 6551 | 3.8163076 | 6584 | 3.8184898 |
| 6519 | 3.8141810 | 6552 | 3.8163739 | 6585 | 3.8185558 |
| 6520 | 3.8142476 | 6553 | 3.8164402 | 6586 | 3.8186217 |
| 6521 | 3.8143142 | 6554 | 3.8165064 | 6587 | 3.8186877 |
| 6522 | 3.8143808 | 6555 | 3.8165727 | 6588 | 3.8187536 |
| 6523 | 3.8144474 | 6556 | 3.8166389 | 6589 | 3.8188195 |
| 6524 | 3.8145140 | 6557 | 3.8167052 | 6590 | 3.8188854 |
| 6525 | 3.8145805 | 6558 | 3.8167714 | 6591 | 3.8189513 |
| 6526 | 3.8146471 | 6559 | 3.8168376 | 6592 | 3.8190172 |
| 6527 | 3.8147136 | 6560 | 3.8169038 | 6593 | 3.8190831 |
| 6528 | 3.8147801 | 6561 | 3.8169700 | 6594 | 3.8191489 |
| 6529 | 3.8148467 | 6562 | 3.8170362 | 6595 | 3.8192148 |
| 6530 | 3.8149132 | 6563 | 3.8171024 | 6596 | 3.8192806 |
| 6531 | 3.8149797 | 6564 | 3.8171686 | 6597 | 3.8193465 |
| 6532 | 3.8150462 | 6565 | 3.8172347 | 6598 | 3.8194123 |
| 6533 | 3.8151127 | 6566 | 3.8173009 | 6599 | 3.8194781 |
| 6534 | 3.8151791 | 6567 | 3.8173670 | 6600 | 3.8195439 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6601 | 3.8196097 | 6634 | 3.8217755 | 6667 | 3.8239305 |
| 6602 | 3.8196755 | 6635 | 3.8218409 | 6668 | 3.8239956 |
| 6603 | 3.8197413 | 6636 | 3.8219064 | 6669 | 3.8240607 |
| 6604 | 3.8198071 | 6637 | 3.8219718 | 6670 | 3.8241258 |
| 6605 | 3.8198728 | 6638 | 3.8220372 | 6671 | 3.8241909 |
| 6606 | 3.8199386 | 6639 | 3.8221027 | 6672 | 3.8242560 |
| 6607 | 3.8200043 | 6640 | 3.8221681 | 6673 | 3.8243211 |
| 6608 | 3.8200700 | 6641 | 3.8222335 | 6674 | 3.8243862 |
| 6609 | 3.8201358 | 6642 | 3.8222989 | 6675 | 3.8244513 |
| 6610 | 3.8202015 | 6643 | 3.8223643 | 6676 | 3.8245163 |
| 6611 | 3.8202672 | 6644 | 3.8224296 | 6677 | 3.8245814 |
| 6612 | 3.8203328 | 6645 | 3.8224950 | 6678 | 3.8246464 |
| 6613 | 3.8203985 | 6646 | 3.8225603 | 6679 | 3.8247114 |
| 6614 | 3.8204642 | 6647 | 3.8226257 | 6680 | 3.8247765 |
| 6615 | 3.8205298 | 6648 | 3.8226910 | 6681 | 3.8248415 |
| 6616 | 3.8205955 | 6649 | 3.8227563 | 6682 | 3.8249065 |
| 6617 | 3.8206611 | 6650 | 3.8228216 | 6683 | 3.8249715 |
| 6618 | 3.8207268 | 6651 | 3.8228869 | 6684 | 3.8250364 |
| 6619 | 3.8207924 | 6652 | 3.8229522 | 6685 | 3.8251014 |
| 6620 | 3.8208580 | 6653 | 3.8230175 | 6686 | 3.8251664 |
| 6621 | 3.8209236 | 6654 | 3.8230828 | 6687 | 3.8252313 |
| 6622 | 3.8209892 | 6655 | 3.8231481 | 6688 | 3.8252963 |
| 6623 | 3.8210548 | 6656 | 3.8232133 | 6689 | 3.8253612 |
| 6624 | 3.8211203 | 6657 | 3.8232786 | 6690 | 3.8254261 |
| 6625 | 3.8211859 | 6658 | 3.8233438 | 6691 | 3.8254910 |
| 6626 | 3.8212514 | 6659 | 3.8234090 | 6692 | 3.8255559 |
| 6627 | 3.8213170 | 6660 | 3.8234742 | 6693 | 3.8256208 |
| 6628 | 3.8213825 | 6661 | 3.8235394 | 6694 | 3.8256857 |
| 6629 | 3.8214480 | 6662 | 3.8236046 | 6695 | 3.8257506 |
| 6630 | 3.8215135 | 6663 | 3.8236698 | 6696 | 3.8258154 |
| 6631 | 3.8215790 | 6664 | 3.8237350 | 6697 | 3.8258803 |
| 6632 | 3.8216445 | 6665 | 3.8238002 | 6698 | 3.8259451 |
| 6633 | 3.8217100 | 6666 | 3.8238653 | 6699 | 3.8260100 |
| 6634 | 3.8217755 | 6667 | 3.8239305 | 6700 | 3.8260748 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6701 | 3.8261396 | 6734 | 3.8282731 | 6767 | 3.8303962 |
| 6702 | 3.8262044 | 6735 | 3.8283376 | 6768 | 3.8304603 |
| 6703 | 3.8262692 | 6736 | 3.8284021 | 6769 | 3.8305245 |
| 6704 | 3.8263340 | 6737 | 3.8284665 | 6770 | 3.8305887 |
| 6705 | 3.8263988 | 6738 | 3.8285310 | 6771 | 3.8306528 |
| 6706 | 3.8264635 | 6739 | 3.8285955 | 6772 | 3.8307169 |
| 6707 | 3.8265283 | 6740 | 3.8286599 | 6773 | 3.8307811 |
| 6708 | 3.8265931 | 6741 | 3.8287243 | 6774 | 3.8308452 |
| 6709 | 3.8266578 | 6742 | 3.8287887 | 6775 | 3.8309093 |
| 6710 | 3.8267225 | 6743 | 3.8288532 | 6776 | 3.8309734 |
| 6711 | 3.8267872 | 6744 | 3.8289176 | 6777 | 3.8310375 |
| 6712 | 3.8268519 | 6745 | 3.8289820 | 6778 | 3.8311016 |
| 6713 | 3.8269166 | 6746 | 3.8290463 | 6779 | 3.8311656 |
| 6714 | 3.8269813 | 6747 | 3.8291107 | 6780 | 3.8312297 |
| 6715 | 3.8270460 | 6748 | 3.8291751 | 6781 | 3.8312937 |
| 6716 | 3.8271107 | 6749 | 3.8292394 | 6782 | 3.8313578 |
| 6717 | 3.8271753 | 6750 | 3.8293038 | 6783 | 3.8314218 |
| 6718 | 3.8272400 | 6751 | 3.8293681 | 6784 | 3.8314858 |
| 6719 | 3.8273046 | 6752 | 3.8294324 | 6785 | 3.8315499 |
| 6720 | 3.8273693 | 6753 | 3.8294967 | 6786 | 3.8316139 |
| 6721 | 3.8274339 | 6754 | 3.8295611 | 6787 | 3.8316778 |
| 6722 | 3.8274985 | 6755 | 3.8296254 | 6788 | 3.8317418 |
| 6723 | 3.8275631 | 6756 | 3.8296896 | 6789 | 3.8318058 |
| 6724 | 3.8276277 | 6757 | 3.8297539 | 6790 | 3.8318698 |
| 6725 | 3.8276923 | 6758 | 3.8298182 | 6791 | 3.8319337 |
| 6726 | 3.8277569 | 6759 | 3.8298824 | 6792 | 3.8319977 |
| 6727 | 3.8278214 | 6760 | 3.8299467 | 6793 | 3.8320616 |
| 6728 | 3.8278860 | 6761 | 3.8300109 | 6794 | 3.8321255 |
| 6729 | 3.8279505 | 6762 | 3.8300752 | 6795 | 3.8321895 |
| 6730 | 3.8280151 | 6763 | 3.8301394 | 6796 | 3.8322534 |
| 6731 | 3.8280796 | 6764 | 3.8302036 | 6797 | 3.8323173 |
| 6732 | 3.8281441 | 6765 | 3.8302678 | 6798 | 3.8323812 |
| 6733 | 3.8282086 | 6766 | 3.8303320 | 6799 | 3.8324450 |
| 6734 | 3.8282731 | 6767 | 3.8303962 | 6800 | 3.8325089 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6801 | 3.8325728 | 6834 | 3.8346750 | 6867 | 3.8367670 |
| 6802 | 3.8326366 | 6835 | 3.8347385 | 6868 | 3.8368303 |
| 6803 | 3.8327005 | 6836 | 3.8348021 | 6869 | 3.8368935 |
| 6804 | 3.8327643 | 6837 | 3.8348656 | 6870 | 3.8369567 |
| 6805 | 3.8328281 | 6838 | 3.8349291 | 6871 | 3.8370199 |
| 6806 | 3.8328919 | 6839 | 3.8349926 | 6872 | 3.8370832 |
| 6807 | 3.8329558 | 6840 | 3.8350561 | 6873 | 3.8371463 |
| 6808 | 3.8330195 | 6841 | 3.8351196 | 6874 | 3.8372095 |
| 6809 | 3.8330833 | 6842 | 3.8351831 | 6875 | 3.8372727 |
| 6810 | 3.8331471 | 6843 | 3.8352465 | 6876 | 3.8373359 |
| 6811 | 3.8332109 | 6844 | 3.8353100 | 6877 | 3.8373990 |
| 6812 | 3.8332746 | 6845 | 3.8353735 | 6878 | 3.8374622 |
| 6813 | 3.8333384 | 6846 | 3.8354369 | 6879 | 3.8375253 |
| 6814 | 3.8334021 | 6847 | 3.8355003 | 6880 | 3.8375884 |
| 6815 | 3.8334659 | 6848 | 3.8355638 | 6881 | 3.8376516 |
| 6816 | 3.8335296 | 6849 | 3.8356272 | 6882 | 3.8377147 |
| 6817 | 3.8335933 | 6850 | 3.8356906 | 6883 | 3.8377778 |
| 6818 | 3.8336570 | 6851 | 3.8357540 | 6884 | 3.8378409 |
| 6819 | 3.8337207 | 6852 | 3.8358174 | 6885 | 3.8379039 |
| 6820 | 3.8337844 | 6853 | 3.8358807 | 6886 | 3.8379670 |
| 6821 | 3.8338480 | 6854 | 3.8359441 | 6887 | 3.8380301 |
| 6822 | 3.8339117 | 6855 | 3.8360075 | 6888 | 3.8380931 |
| 6823 | 3.8339754 | 6856 | 3.8360708 | 6889 | 3.8381562 |
| 6824 | 3.8340390 | 6857 | 3.8361341 | 6890 | 3.8382192 |
| 6825 | 3.8341027 | 6858 | 3.8361975 | 6891 | 3.8382822 |
| 6826 | 3.8341663 | 6859 | 3.8362608 | 6892 | 3.8383453 |
| 6827 | 3.8342299 | 6860 | 3.8363241 | 6893 | 3.8384083 |
| 6828 | 3.8342935 | 6861 | 3.8363874 | 6894 | 3.8384713 |
| 6829 | 3.8343571 | 6862 | 3.8364507 | 6895 | 3.8385343 |
| 6830 | 3.8344207 | 6863 | 3.8365140 | 6896 | 3.8385973 |
| 6831 | 3.8344843 | 6864 | 3.8365773 | 6897 | 3.8386602 |
| 6832 | 3.8345479 | 6865 | 3.8366405 | 6898 | 3.8387232 |
| 6833 | 3.8346114 | 6866 | 3.8367038 | 6899 | 3.8387861 |
| 6834 | 3.8346750 | 6867 | 3.8367670 | 6900 | 3.8388491 |



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| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6901 | 3.8389120 | 6934 | 3.8409838 | 6967 | 3.8430458 |
| 6902 | 3.8389750 | 6935 | 3.8410465 | 6968 | 3.8431081 |
| 6903 | 3.8390379 | 6936 | 3.8411091 | 6969 | 3.8431705 |
| 6904 | 3.8391008 | 6937 | 3.8411717 | 6970 | 3.8432328 |
| 6905 | 3.8391637 | 6938 | 3.8412343 | 6971 | 3.8432951 |
| 6906 | 3.8392266 | 6939 | 3.8412969 | 6972 | 3.8433574 |
| 6907 | 3.8392895 | 6940 | 3.8413595 | 6973 | 3.8434197 |
| 6908 | 3.8393523 | 6941 | 3.8414220 | 6974 | 3.8434819 |
| 6909 | 3.8394152 | 6942 | 3.8414846 | 6975 | 3.8435442 |
| 6910 | 3.8394780 | 6943 | 3.8415472 | 6976 | 3.8436065 |
| 6911 | 3.8395409 | 6944 | 3.8416097 | 6977 | 3.8436687 |
| 6912 | 3.8396037 | 6945 | 3.8416722 | 6978 | 3.8437310 |
| 6913 | 3.8396666 | 6946 | 3.8417348 | 6979 | 3.8437932 |
| 6914 | 3.8397294 | 6947 | 3.8417973 | 6980 | 3.8438554 |
| 6915 | 3.8397922 | 6948 | 3.8418598 | 6981 | 3.8439176 |
| 6916 | 3.8398550 | 6949 | 3.8419223 | 6982 | 3.8439798 |
| 6917 | 3.8399178 | 6950 | 3.8419848 | 6983 | 3.8440420 |
| 6918 | 3.8399806 | 6951 | 3.8420473 | 6984 | 3.8441042 |
| 6919 | 3.8400433 | 6952 | 3.8421098 | 6985 | 3.8441664 |
| 6920 | 3.8401061 | 6953 | 3.8421722 | 6986 | 3.8442286 |
| 6921 | 3.8401688 | 6954 | 3.8422347 | 6987 | 3.8442907 |
| 6922 | 3.8402316 | 6955 | 3.8422971 | 6988 | 3.8443529 |
| 6923 | 3.8402943 | 6956 | 3.8423596 | 6989 | 3.8444150 |
| 6924 | 3.8403571 | 6957 | 3.8424220 | 6990 | 3.8444772 |
| 6925 | 3.8404198 | 6958 | 3.8424844 | 6991 | 3.8445393 |
| 6926 | 3.8404825 | 6959 | 3.8425468 | 6992 | 3.8446014 |
| 6927 | 3.8405452 | 6960 | 3.8426092 | 6993 | 3.8446635 |
| 6928 | 3.8406079 | 6961 | 3.8426716 | 6994 | 3.8447256 |
| 6929 | 3.8406706 | 6962 | 3.8427340 | 6995 | 3.8447877 |
| 6930 | 3.8407332 | 6963 | 3.8427964 | 6996 | 3.8448498 |
| 6931 | 3.8407959 | 6964 | 3.8428588 | 6997 | 3.8449119 |
| 6932 | 3.8408586 | 6965 | 3.8429212 | 6998 | 3.8449739 |
| 6933 | 3.8409212 | 6966 | 3.8429835 | 6999 | 3.8450360 |
| 6934 | 3.8409838 | 6967 | 3.8430458 | 6000 | 3.8450980 |

N. 162.

7000

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| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7001 | 3.8451601 | 7034 | 3.8472024 | 7067 | 3.8492351 |
| 7002 | 3.8452221 | 7035 | 3.8472641 | 7068 | 3.8492965 |
| 7003 | 3.8452841 | 7036 | 3.8473258 | 7069 | 3.8493580 |
| 7004 | 3.8453461 | 7037 | 3.8473876 | 7070 | 3.8494194 |
| 7005 | 3.8454081 | 7038 | 3.8474493 | 7071 | 3.8494808 |
| 7006 | 3.8454701 | 7039 | 3.8475110 | 7072 | 3.8495423 |
| 7007 | 3.8455321 | 7040 | 3.8475727 | 7073 | 3.8496037 |
| 7008 | 3.8455941 | 7041 | 3.8476343 | 7074 | 3.8496651 |
| 7009 | 3.8456561 | 7042 | 3.8476960 | 7075 | 3.8497264 |
| 7010 | 3.8457180 | 7043 | 3.8477577 | 7076 | 3.8497878 |
| 7011 | 3.8457800 | 7044 | 3.8478193 | 7077 | 3.8498492 |
| 7012 | 3.8458419 | 7045 | 3.8478810 | 7078 | 3.8499106 |
| 7013 | 3.8459038 | 7046 | 3.8479426 | 7079 | 3.8499719 |
| 7014 | 3.8459658 | 7047 | 3.8480043 | 7080 | 3.8500333 |
| 7015 | 3.8460277 | 7048 | 3.8480659 | 7081 | 3.8500946 |
| 7016 | 3.8460896 | 7049 | 3.8481275 | 7082 | 3.8501559 |
| 7017 | 3.8461515 | 7050 | 3.8481891 | 7083 | 3.8502172 |
| 7018 | 3.8462134 | 7051 | 3.8482507 | 7084 | 3.8502786 |
| 7019 | 3.8462752 | 7052 | 3.8483123 | 7085 | 3.8503399 |
| 7020 | 3.8463371 | 7053 | 3.8483739 | 7086 | 3.8504011 |
| 7021 | 3.8463990 | 7054 | 3.8484355 | 7087 | 3.8504624 |
| 7022 | 3.8464608 | 7055 | 3.8484970 | 7088 | 3.8505237 |
| 7023 | 3.8465227 | 7056 | 3.8485586 | 7089 | 3.8505850 |
| 7024 | 3.8465845 | 7057 | 3.8486201 | 7090 | 3.8506462 |
| 7025 | 3.8466463 | 7058 | 3.8486817 | 7091 | 3.8507075 |
| 7026 | 3.8467081 | 7059 | 3.8487432 | 7092 | 3.8507687 |
| 7027 | 3.8467700 | 7060 | 3.8488047 | 7093 | 3.8508300 |
| 7028 | 3.8468318 | 7061 | 3.8488662 | 7094 | 3.8508912 |
| 7029 | 3.8468935 | 7062 | 3.8489277 | 7095 | 3.8509524 |
| 7030 | 3.8469553 | 7063 | 3.8489892 | 7096 | 3.8510136 |
| 7031 | 3.8470171 | 7064 | 3.8490507 | 7097 | 3.8510748 |
| 7032 | 3.8470789 | 7065 | 3.8491122 | 7098 | 3.8511360 |
| 7033 | 3.8471406 | 7066 | 3.8491736 | 7099 | 3.8511972 |
| 7034 | 3.8472024 | 7067 | 3.8492351 | 7100 | 3.8512583 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7101 | 3.8513195 | 7134 | 3.8533331 | 7167 | 3.8553374 |
| 7102 | 3.8513807 | 7135 | 3.8533940 | 7168 | 3.8553980 |
| 7103 | 3.8514418 | 7136 | 3.8534548 | 7169 | 3.8554586 |
| 7104 | 3.8515030 | 7137 | 3.8535157 | 7170 | 3.8555192 |
| 7105 | 3.8515641 | 7138 | 3.8535765 | 7171 | 3.8555797 |
| 7106 | 3.8516252 | 7139 | 3.8536374 | 7172 | 3.8556403 |
| 7107 | 3.8516863 | 7140 | 3.8536982 | 7173 | 3.8557008 |
| 7108 | 3.8517474 | 7141 | 3.8537590 | 7174 | 3.8557614 |
| 7109 | 3.8518085 | 7142 | 3.8538198 | 7175 | 3.8558219 |
| 7110 | 3.8518696 | 7143 | 3.8538806 | 7176 | 3.8558824 |
| 7111 | 3.8519307 | 7144 | 3.8539414 | 7177 | 3.8559429 |
| 7112 | 3.8519917 | 7145 | 3.8540022 | 7178 | 3.8560035 |
| 7113 | 3.8520528 | 7146 | 3.8540630 | 7179 | 3.8560640 |
| 7114 | 3.8521139 | 7147 | 3.8541238 | 7180 | 3.8561244 |
| 7115 | 3.8521749 | 7148 | 3.8541845 | 7181 | 3.8561849 |
| 7116 | 3.8522359 | 7149 | 3.8542453 | 7182 | 3.8562454 |
| 7117 | 3.8522970 | 7150 | 3.8543060 | 7183 | 3.8563059 |
| 7118 | 3.8523580 | 7151 | 3.8543668 | 7184 | 3.8563663 |
| 7119 | 3.8524190 | 7152 | 3.8544275 | 7185 | 3.8564268 |
| 7120 | 3.8524800 | 7153 | 3.8544882 | 7186 | 3.8564872 |
| 7121 | 3.8525410 | 7154 | 3.8545489 | 7187 | 3.8565476 |
| 7122 | 3.8526020 | 7155 | 3.8546096 | 7188 | 3.8566081 |
| 7123 | 3.8526629 | 7156 | 3.8546703 | 7189 | 3.8566685 |
| 7124 | 3.8527239 | 7157 | 3.8547310 | 7190 | 3.8567289 |
| 7125 | 3.8527849 | 7158 | 3.8547917 | 7191 | 3.8567893 |
| 7126 | 3.8528458 | 7159 | 3.8548524 | 7192 | 3.8568497 |
| 7127 | 3.8529068 | 7160 | 3.8549130 | 7193 | 3.8569101 |
| 7128 | 3.8529677 | 7161 | 3.8549737 | 7194 | 3.8569704 |
| 7129 | 3.8530286 | 7162 | 3.8550343 | 7195 | 3.8570308 |
| 7130 | 3.8530895 | 7163 | 3.8550950 | 7196 | 3.8570912 |
| 7131 | 3.8531504 | 7164 | 3.8551556 | 7197 | 3.8571515 |
| 7132 | 3.8532113 | 7165 | 3.8552162 | 7198 | 3.8572118 |
| 7133 | 3.8532722 | 7166 | 3.8552768 | 7199 | 3.8572722 |
| 7134 | 3.8533331 | 7167 | 3.8553374 | 7200 | 3.8573325 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7201 | 3.8573928 | 7234 | 3.8593785 | 7267 | 3.8613552 |
| 7202 | 3.8574531 | 7235 | 3.8594385 | 7268 | 3.8614149 |
| 7203 | 3.8575134 | 7236 | 3.8594986 | 7269 | 3.8614747 |
| 7204 | 3.8575737 | 7237 | 3.8595586 | 7270 | 3.8615344 |
| 7205 | 3.8576340 | 7238 | 3.8596186 | 7271 | 3.8615941 |
| 7206 | 3.8576943 | 7239 | 3.8596786 | 7272 | 3.8616539 |
| 7207 | 3.8577545 | 7240 | 3.8597386 | 7273 | 3.8617136 |
| 7208 | 3.8578148 | 7241 | 3.8597985 | 7274 | 3.8617733 |
| 7209 | 3.8578750 | 7242 | 3.8598585 | 7275 | 3.8618330 |
| 7210 | 3.8579353 | 7243 | 3.8599185 | 7276 | 3.8618927 |
| 7211 | 3.8579955 | 7244 | 3.8599784 | 7277 | 3.8619524 |
| 7212 | 3.8580557 | 7245 | 3.8600384 | 7278 | 3.8620120 |
| 7213 | 3.8581159 | 7246 | 3.8600983 | 7279 | 3.8620717 |
| 7214 | 3.8581761 | 7247 | 3.8601583 | 7280 | 3.8621314 |
| 7215 | 3.8582363 | 7248 | 3.8602182 | 7281 | 3.8621910 |
| 7216 | 3.8582965 | 7249 | 3.8602781 | 7282 | 3.8622507 |
| 7217 | 3.8583567 | 7250 | 3.8603380 | 7283 | 3.8623103 |
| 7218 | 3.8584169 | 7251 | 3.8603979 | 7284 | 3.8623699 |
| 7219 | 3.8584770 | 7252 | 3.8604578 | 7285 | 3.8624296 |
| 7220 | 3.8585372 | 7253 | 3.8605177 | 7286 | 3.8624892 |
| 7221 | 3.8585973 | 7254 | 3.8605776 | 7287 | 3.8625488 |
| 7222 | 3.8586575 | 7255 | 3.8606374 | 7288 | 3.8626084 |
| 7223 | 3.8587176 | 7256 | 3.8606973 | 7289 | 3.8626679 |
| 7224 | 3.8587777 | 7257 | 3.8607571 | 7290 | 3.8627275 |
| 7225 | 3.8588379 | 7258 | 3.8608170 | 7291 | 3.8627871 |
| 7226 | 3.8588980 | 7259 | 3.8608768 | 7292 | 3.8628467 |
| 7227 | 3.8589581 | 7260 | 3.8609366 | 7293 | 3.8629062 |
| 7228 | 3.8590181 | 7261 | 3.8609964 | 7294 | 3.8629658 |
| 7229 | 3.8590782 | 7262 | 3.8610562 | 7295 | 3.8630253 |
| 7230 | 3.8591383 | 7263 | 3.8611160 | 7296 | 3.8630848 |
| 7231 | 3.8591984 | 7264 | 3.8611758 | 7297 | 3.8631443 |
| 7232 | 3.8592584 | 7265 | 3.8612356 | 7298 | 3.8632039 |
| 7233 | 3.8593185 | 7266 | 3.8612954 | 7299 | 3.8632634 |
| 7234 | 3.8593785 | 7267 | 3.8613552 | 7300 | 3.8633229 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7301 | 3.8633823 | 7334 | 3.8653409 | 7367 | 3.8672907 |
| 7302 | 3.8634418 | 7335 | 3.8654001 | 7368 | 3.8673496 |
| 7303 | 3.8635013 | 7336 | 3.8654593 | 7369 | 3.8674086 |
| 7304 | 3.8635608 | 7337 | 3.8655185 | 7370 | 3.8674675 |
| 7305 | 3.8636202 | 7338 | 3.8655777 | 7371 | 3.8675264 |
| 7306 | 3.8636797 | 7339 | 3.8656369 | 7372 | 3.8675853 |
| 7307 | 3.8637391 | 7340 | 3.8656961 | 7373 | 3.8676442 |
| 7308 | 3.8637985 | 7341 | 3.8657552 | 7374 | 3.8677031 |
| 7309 | 3.8638580 | 7342 | 3.8658144 | 7375 | 3.8677620 |
| 7310 | 3.8639174 | 7343 | 3.8658735 | 7376 | 3.8678209 |
| 7311 | 3.8639768 | 7344 | 3.8659327 | 7377 | 3.8678798 |
| 7312 | 3.8640362 | 7345 | 3.8659918 | 7378 | 3.8679387 |
| 7313 | 3.8640956 | 7346 | 3.8660509 | 7379 | 3.8679975 |
| 7314 | 3.8641550 | 7347 | 3.8661100 | 7380 | 3.8680564 |
| 7315 | 3.8642143 | 7348 | 3.8661691 | 7381 | 3.8681152 |
| 7316 | 3.8642737 | 7349 | 3.8662282 | 7382 | 3.8681740 |
| 7317 | 3.8643331 | 7350 | 3.8662873 | 7383 | 3.8682329 |
| 7318 | 3.8643924 | 7351 | 3.8663464 | 7384 | 3.8682917 |
| 7319 | 3.8644517 | 7352 | 3.8664055 | 7385 | 3.8683505 |
| 7320 | 3.8645111 | 7353 | 3.8664646 | 7386 | 3.8684093 |
| 7321 | 3.8645704 | 7354 | 3.8665236 | 7387 | 3.8684681 |
| 7322 | 3.8646297 | 7355 | 3.8665827 | 7388 | 3.8685269 |
| 7323 | 3.8646890 | 7356 | 3.8666417 | 7389 | 3.8685857 |
| 7324 | 3.8647483 | 7357 | 3.8667008 | 7390 | 3.8686444 |
| 7325 | 3.8648076 | 7358 | 3.8667598 | 7391 | 3.8687032 |
| 7326 | 3.8648669 | 7359 | 3.8668188 | 7392 | 3.8687620 |
| 7327 | 3.8649262 | 7360 | 3.8668778 | 7393 | 3.8688207 |
| 7328 | 3.8649855 | 7361 | 3.8669368 | 7394 | 3.8688794 |
| 7329 | 3.8650447 | 7362 | 3.8669958 | 7395 | 3.8689382 |
| 7330 | 3.8651040 | 7363 | 3.8670548 | 7396 | 3.8689969 |
| 7331 | 3.8651632 | 7364 | 3.8671138 | 7397 | 3.8690556 |
| 7332 | 3.8652225 | 7365 | 3.8671728 | 7398 | 3.8691143 |
| 7333 | 3.8652817 | 7366 | 3.8672317 | 7399 | 3.8691730 |
| 7334 | 3.8653409 | 7367 | 3.8672907 | 7400 | 3.8692317 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7401 | 3.8692904 | 7434 | 3.8712226 | 7467 | 3.8731462 |
| 7402 | 3.8693491 | 7435 | 3.8712810 | 7468 | 3.8732043 |
| 7403 | 3.8694077 | 7436 | 3.8713394 | 7469 | 3.8732625 |
| 7404 | 3.8694664 | 7437 | 3.8713978 | 7470 | 3.8733206 |
| 7405 | 3.8695251 | 7438 | 3.8714562 | 7471 | 3.8733787 |
| 7406 | 3.8695837 | 7439 | 3.8715146 | 7472 | 3.8734369 |
| 7407 | 3.8696423 | 7440 | 3.8715729 | 7473 | 3.8734950 |
| 7408 | 3.8697010 | 7441 | 3.8716313 | 7474 | 3.8735531 |
| 7409 | 3.8697596 | 7442 | 3.8716897 | 7475 | 3.8736112 |
| 7410 | 3.8698182 | 7443 | 3.8717480 | 7476 | 3.8736693 |
| 7411 | 3.8698768 | 7444 | 3.8718064 | 7477 | 3.8737274 |
| 7412 | 3.8699354 | 7445 | 3.8718647 | 7478 | 3.8737855 |
| 7413 | 3.8699940 | 7446 | 3.8719230 | 7479 | 3.8738435 |
| 7414 | 3.8700526 | 7447 | 3.8719814 | 7480 | 3.8739016 |
| 7415 | 3.8701112 | 7448 | 3.8720397 | 7481 | 3.8739597 |
| 7416 | 3.8701697 | 7449 | 3.8720980 | 7482 | 3.8740177 |
| 7417 | 3.8702283 | 7450 | 3.8721563 | 7483 | 3.8740757 |
| 7418 | 3.8702868 | 7451 | 3.8722146 | 7484 | 3.8741338 |
| 7419 | 3.8703454 | 7452 | 3.8722728 | 7485 | 3.8741918 |
| 7420 | 3.8704039 | 7453 | 3.8723311 | 7486 | 3.8742498 |
| 7421 | 3.8704624 | 7454 | 3.8723894 | 7487 | 3.8743078 |
| 7422 | 3.8705209 | 7455 | 3.8724476 | 7488 | 3.8743658 |
| 7423 | 3.8705795 | 7456 | 3.8725059 | 7489 | 3.8744238 |
| 7424 | 3.8706380 | 7457 | 3.8725641 | 7490 | 3.8744818 |
| 7425 | 3.8706965 | 7458 | 3.8726224 | 7491 | 3.8745398 |
| 7426 | 3.8707549 | 7459 | 3.8726806 | 7492 | 3.8745978 |
| 7427 | 3.8708134 | 7460 | 3.8727388 | 7493 | 3.8746557 |
| 7428 | 3.8708719 | 7461 | 3.8727970 | 7494 | 3.8747137 |
| 7429 | 3.8709304 | 7462 | 3.8728552 | 7495 | 3.8747716 |
| 7430 | 3.8709888 | 7463 | 3.8729134 | 7496 | 3.8748296 |
| 7431 | 3.8710473 | 7464 | 3.8729716 | 7497 | 3.8748875 |
| 7432 | 3.8711057 | 7465 | 3.8730298 | 7498 | 3.8749454 |
| 7433 | 3.8711641 | 7466 | 3.8730880 | 7499 | 3.8750034 |
| 7434 | 3.8712226 | 7467 | 3.8731462 | 7500 | 3.8750613 |



7500

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7501 | 3.8751192 | 7534 | 3.8770256 | 7567 | 3.8789237 |
| 7502 | 3.8751771 | 7535 | 3.8770833 | 7568 | 3.8789811 |
| 7503 | 3.8752349 | 7536 | 3.8771409 | 7569 | 3.8790385 |
| 7504 | 3.8752928 | 7537 | 3.8771985 | 7570 | 3.8790959 |
| 7505 | 3.8753507 | 7538 | 3.8772561 | 7571 | 3.8791532 |
| 7506 | 3.8754086 | 7539 | 3.8773137 | 7572 | 3.8792106 |
| 7507 | 3.8754664 | 7540 | 3.8773713 | 7573 | 3.8792680 |
| 7508 | 3.8755243 | 7541 | 3.8774289 | 7574 | 3.8793253 |
| 7509 | 3.8755821 | 7542 | 3.8774865 | 7575 | 3.8793826 |
| 7510 | 3.8756399 | 7543 | 3.8775441 | 7576 | 3.8794400 |
| 7511 | 3.8756978 | 7544 | 3.8776017 | 7577 | 3.8794973 |
| 7512 | 3.8757556 | 7545 | 3.8776592 | 7578 | 3.8795546 |
| 7513 | 3.8758134 | 7546 | 3.8777168 | 7579 | 3.8796119 |
| 7514 | 3.8758712 | 7547 | 3.8777743 | 7580 | 3.8796692 |
| 7515 | 3.8759290 | 7548 | 3.8778319 | 7581 | 3.8797265 |
| 7516 | 3.8759868 | 7549 | 3.8778894 | 7582 | 3.8797838 |
| 7517 | 3.8760445 | 7550 | 3.8779469 | 7583 | 3.8798411 |
| 7518 | 3.8761023 | 7551 | 3.8780045 | 7584 | 3.8798983 |
| 7519 | 3.8761601 | 7552 | 3.8780620 | 7585 | 3.8799556 |
| 7520 | 3.8762178 | 7553 | 3.8781195 | 7586 | 3.8800128 |
| 7521 | 3.8762756 | 7554 | 3.8781770 | 7587 | 3.8800701 |
| 7522 | 3.8763333 | 7555 | 3.8782345 | 7588 | 3.8801273 |
| 7523 | 3.8763911 | 7556 | 3.8782919 | 7589 | 3.8801846 |
| 7524 | 3.8764488 | 7557 | 3.8783494 | 7590 | 3.8802418 |
| 7525 | 3.8765065 | 7558 | 3.8784069 | 7591 | 3.8802990 |
| 7526 | 3.8765642 | 7559 | 3.8784643 | 7592 | 3.8803562 |
| 7527 | 3.8766219 | 7560 | 3.8785218 | 7593 | 3.8804134 |
| 7528 | 3.8766796 | 7561 | 3.8785792 | 7594 | 3.8804706 |
| 7529 | 3.8767373 | 7562 | 3.8786367 | 7595 | 3.8805278 |
| 7530 | 3.8767950 | 7563 | 3.8786941 | 7596 | 3.8805850 |
| 7531 | 3.8768526 | 7564 | 3.8787515 | 7597 | 3.8806421 |
| 7532 | 3.8769103 | 7565 | 3.8788089 | 7598 | 3.8806993 |
| 7533 | 3.8769680 | 7566 | 3.8788663 | 7599 | 3.8807564 |
| 7534 | 3.8770256 | 7567 | 3.8789237 | 7600 | 3.8808136 |

N. 168.

7600



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7601 | 3.8808707 | 7634 | 3.8827522 | 7667 | 3.8846255 |
| 7602 | 3.8809279 | 7635 | 3.8828090 | 7668 | 3.8846821 |
| 7603 | 3.8809850 | 7636 | 3.8828659 | 7669 | 3.8847387 |
| 7604 | 3.8810421 | 7637 | 3.8829228 | 7670 | 3.8847954 |
| 7605 | 3.8810992 | 7638 | 3.8829797 | 7671 | 3.8848520 |
| 7606 | 3.8811563 | 7639 | 3.8830365 | 7672 | 3.8849086 |
| 7607 | 3.8812134 | 7640 | 3.8830934 | 7673 | 3.8849652 |
| 7608 | 3.8812705 | 7641 | 3.8831502 | 7674 | 3.8850218 |
| 7609 | 3.8813276 | 7642 | 3.8832070 | 7675 | 3.8850784 |
| 7610 | 3.8813847 | 7643 | 3.8832639 | 7676 | 3.8851350 |
| 7611 | 3.8814417 | 7644 | 3.8833207 | 7677 | 3.8851915 |
| 7612 | 3.8814988 | 7645 | 3.8833775 | 7678 | 3.8852481 |
| 7613 | 3.8815558 | 7646 | 3.8834343 | 7679 | 3.8853047 |
| 7614 | 3.8816129 | 7647 | 3.8834911 | 7680 | 3.8853612 |
| 7615 | 3.8816699 | 7648 | 3.8835479 | 7681 | 3.8854178 |
| 7616 | 3.8817269 | 7649 | 3.8836047 | 7682 | 3.8854743 |
| 7617 | 3.8817840 | 7650 | 3.8836614 | 7683 | 3.8855308 |
| 7618 | 3.8818410 | 7651 | 3.8837182 | 7684 | 3.8855874 |
| 7619 | 3.8818980 | 7652 | 3.8837750 | 7685 | 3.8856439 |
| 7620 | 3.8819550 | 7653 | 3.8838317 | 7686 | 3.8857004 |
| 7621 | 3.8820120 | 7654 | 3.8838885 | 7687 | 3.8857569 |
| 7622 | 3.8820689 | 7655 | 3.8839452 | 7688 | 3.8858134 |
| 7623 | 3.8821259 | 7656 | 3.8840019 | 7689 | 3.8858699 |
| 7624 | 3.8821829 | 7657 | 3.8840586 | 7690 | 3.8859263 |
| 7625 | 3.8822398 | 7658 | 3.8841154 | 7691 | 3.8859828 |
| 7626 | 3.8822968 | 7659 | 3.8841721 | 7692 | 3.8860393 |
| 7627 | 3.8823537 | 7660 | 3.8842288 | 7693 | 3.8860957 |
| 7628 | 3.8824107 | 7661 | 3.8842855 | 7694 | 3.8861522 |
| 7629 | 3.8824676 | 7662 | 3.8843421 | 7695 | 3.8862086 |
| 7630 | 3.8825245 | 7663 | 3.8843988 | 7696 | 3.8862651 |
| 7631 | 3.8825815 | 7664 | 3.8844555 | 7697 | 3.8863215 |
| 7632 | 3.8826384 | 7665 | 3.8845122 | 7698 | 3.8863779 |
| 7633 | 3.8826953 | 7666 | 3.8845688 | 7699 | 3.8864343 |
| 7634 | 3.8827522 | 7667 | 3.8846255 | 7700 | 3.8864907 |



7700

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7701 | 3.8865471 | 7734 | 3.8884042 | 7767 | 3.8902533 |
| 7702 | 3.8866035 | 7735 | 3.8884603 | 7768 | 3.8903092 |
| 7703 | 3.8866599 | 7736 | 3.8885165 | 7769 | 3.8903651 |
| 7704 | 3.8867163 | 7737 | 3.8885726 | 7770 | 3.8904210 |
| 7705 | 3.8867726 | 7738 | 3.8886287 | 7771 | 3.8904769 |
| 7706 | 3.8868290 | 7739 | 3.8886848 | 7772 | 3.8905328 |
| 7707 | 3.8868854 | 7740 | 3.8887410 | 7773 | 3.8905887 |
| 7708 | 3.8869417 | 7741 | 3.8887971 | 7774 | 3.8906445 |
| 7709 | 3.8869980 | 7742 | 3.8888532 | 7775 | 3.8907004 |
| 7710 | 3.8870544 | 7743 | 3.8889093 | 7776 | 3.8907563 |
| 7711 | 3.8871107 | 7744 | 3.8889653 | 7777 | 3.8908121 |
| 7712 | 3.8871670 | 7745 | 3.8890214 | 7778 | 3.8908679 |
| 7713 | 3.8872233 | 7746 | 3.8890775 | 7779 | 3.8909238 |
| 7714 | 3.8872796 | 7747 | 3.8891336 | 7780 | 3.8909796 |
| 7715 | 3.8873359 | 7748 | 3.8891896 | 7781 | 3.8910354 |
| 7716 | 3.8873922 | 7749 | 3.8892457 | 7782 | 3.8910912 |
| 7717 | 3.8874485 | 7750 | 3.8893017 | 7783 | 3.8911470 |
| 7718 | 3.8875048 | 7751 | 3.8893577 | 7784 | 3.8912028 |
| 7719 | 3.8875610 | 7752 | 3.8894138 | 7785 | 3.8912586 |
| 7720 | 3.8876173 | 7753 | 3.8894698 | 7786 | 3.8913144 |
| 7721 | 3.8876736 | 7754 | 3.8895258 | 7787 | 3.8913702 |
| 7722 | 3.8877298 | 7755 | 3.8895818 | 7788 | 3.8914259 |
| 7723 | 3.8877860 | 7756 | 3.8896378 | 7789 | 3.8914817 |
| 7724 | 3.8878423 | 7757 | 3.8896938 | 7790 | 3.8915375 |
| 7725 | 3.8878985 | 7758 | 3.8897498 | 7791 | 3.8915932 |
| 7726 | 3.8879547 | 7759 | 3.8898058 | 7792 | 3.8916489 |
| 7727 | 3.8880109 | 7760 | 3.8898617 | 7793 | 3.8917047 |
| 7728 | 3.8880671 | 7761 | 3.8899177 | 7794 | 3.8917604 |
| 7729 | 3.8881233 | 7762 | 3.8899736 | 7795 | 3.8918161 |
| 7730 | 3.8881795 | 7763 | 3.8900296 | 7796 | 3.8918718 |
| 7731 | 3.8882357 | 7764 | 3.8900855 | 7797 | 3.8919275 |
| 7732 | 3.8882918 | 7765 | 3.8901415 | 7798 | 3.8919832 |
| 7733 | 3.8883480 | 7766 | 3.8901974 | 7799 | 3.8920389 |
| 7734 | 3.8884042 | 7767 | 3.8902533 | 7800 | 3.8920946 |

N. 170.

7800



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7801 | 3.8921503 | 7834 | 3.8939836 | 7867 | 3.8958092 |
| 7802 | 3.8922059 | 7835 | 3.8940390 | 7868 | 3.8958644 |
| 7803 | 3.8922616 | 7836 | 3.8940944 | 7869 | 3.8959195 |
| 7804 | 3.8923173 | 7837 | 3.8941498 | 7870 | 3.8959747 |
| 7805 | 3.8923729 | 7838 | 3.8942053 | 7871 | 3.8960299 |
| 7806 | 3.8924285 | 7839 | 3.8942607 | 7872 | 3.8960851 |
| 7807 | 3.8924842 | 7840 | 3.8943161 | 7873 | 3.8961403 |
| 7808 | 3.8925398 | 7841 | 3.8943715 | 7874 | 3.8961954 |
| 7809 | 3.8925954 | 7842 | 3.8944268 | 7875 | 3.8962506 |
| 7810 | 3.8926510 | 7843 | 3.8944822 | 7876 | 3.8963057 |
| 7811 | 3.8927066 | 7844 | 3.8945376 | 7877 | 3.8963608 |
| 7812 | 3.8927622 | 7845 | 3.8945929 | 7878 | 3.8964160 |
| 7813 | 3.8928178 | 7846 | 3.8946483 | 7879 | 3.8964711 |
| 7814 | 3.8928734 | 7847 | 3.8947037 | 7880 | 3.8965262 |
| 7815 | 3.8929290 | 7848 | 3.8947590 | 7881 | 3.8965813 |
| 7816 | 3.8929846 | 7849 | 3.8948143 | 7882 | 3.8966364 |
| 7817 | 3.8930401 | 7850 | 3.8948697 | 7883 | 3.8966915 |
| 7818 | 3.8930957 | 7851 | 3.8949250 | 7884 | 3.8967466 |
| 7819 | 3.8931512 | 7852 | 3.8949803 | 7885 | 3.8968017 |
| 7820 | 3.8932068 | 7853 | 3.8950356 | 7886 | 3.8968568 |
| 7821 | 3.8932623 | 7854 | 3.8950909 | 7887 | 3.8969118 |
| 7822 | 3.8933178 | 7855 | 3.8951462 | 7888 | 3.8969669 |
| 7823 | 3.8933733 | 7856 | 3.8952015 | 7889 | 3.8970220 |
| 7824 | 3.8934288 | 7857 | 3.8952568 | 7890 | 3.8970770 |
| 7825 | 3.8934843 | 7858 | 3.8953120 | 7891 | 3.8971320 |
| 7826 | 3.8935398 | 7859 | 3.8953673 | 7892 | 3.8971871 |
| 7827 | 3.8935953 | 7860 | 3.8954225 | 7893 | 3.8972421 |
| 7828 | 3.8936508 | 7861 | 3.8954778 | 7894 | 3.8972971 |
| 7829 | 3.8937063 | 7862 | 3.8955330 | 7895 | 3.8973521 |
| 7830 | 3.8937618 | 7863 | 3.8955883 | 7896 | 3.8974071 |
| 7831 | 3.8938172 | 7864 | 3.8956435 | 7897 | 3.8974621 |
| 7832 | 3.8938727 | 7865 | 3.8956987 | 7898 | 3.8975171 |
| 7833 | 3.8939281 | 7866 | 3.8957539 | 7899 | 3.8975721 |
| 7834 | 3.8939836 | 7867 | 3.8958092 | 7900 | 3.8976271 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7901 | 3.8976821 | 7934 | 3.8994922 | 7967 | 3.9012948 |
| 7902 | 3.8977370 | 7935 | 3.8995469 | 7968 | 3.9013493 |
| 7903 | 3.8977920 | 7936 | 3.8996017 | 7969 | 3.9014038 |
| 7904 | 3.8978469 | 7937 | 3.8996564 | 7970 | 3.9014583 |
| 7905 | 3.8979019 | 7938 | 3.8997111 | 7971 | 3.9015128 |
| 7906 | 3.8979568 | 7939 | 3.8997658 | 7972 | 3.9015673 |
| 7907 | 3.8980117 | 7940 | 3.8998205 | 7973 | 3.9016218 |
| 7908 | 3.8980667 | 7941 | 3.8998752 | 7974 | 3.9016762 |
| 7909 | 3.8981216 | 7942 | 3.8999299 | 7975 | 3.9017307 |
| 7910 | 3.8981765 | 7943 | 3.8999846 | 7976 | 3.9017851 |
| 7911 | 3.8982314 | 7944 | 3.9000392 | 7977 | 3.9018396 |
| 7912 | 3.8982863 | 7945 | 3.9000939 | 7978 | 3.9018940 |
| 7913 | 3.8983412 | 7946 | 3.9001486 | 7979 | 3.9019485 |
| 7914 | 3.8983960 | 7947 | 3.9002032 | 7980 | 3.9020029 |
| 7915 | 3.8984509 | 7948 | 3.9002579 | 7981 | 3.9020573 |
| 7916 | 3.8985058 | 7949 | 3.9003125 | 7982 | 3.9021117 |
| 7917 | 3.8985606 | 7950 | 3.9003671 | 7983 | 3.9021661 |
| 7918 | 3.8986155 | 7951 | 3.9004218 | 7984 | 3.9022205 |
| 7919 | 3.8986703 | 7952 | 3.9004764 | 7985 | 3.9022749 |
| 7920 | 3.8987252 | 7953 | 3.9005310 | 7986 | 3.9023293 |
| 7921 | 3.8987800 | 7954 | 3.9005856 | 7987 | 3.9023837 |
| 7922 | 3.8988348 | 7955 | 3.9006402 | 7988 | 3.9024381 |
| 7923 | 3.8988897 | 7956 | 3.9006948 | 7989 | 3.9024924 |
| 7924 | 3.8989445 | 7957 | 3.9007494 | 7990 | 3.9025468 |
| 7925 | 3.8989993 | 7958 | 3.9008039 | 7991 | 3.9026011 |
| 7926 | 3.8990541 | 7959 | 3.9008585 | 7992 | 3.9026555 |
| 7927 | 3.8991089 | 7960 | 3.9009131 | 7993 | 3.9027098 |
| 7928 | 3.8991636 | 7961 | 3.9009676 | 7994 | 3.9027641 |
| 7929 | 3.8992184 | 7962 | 3.9010222 | 7995 | 3.9028185 |
| 7930 | 3.8992732 | 7963 | 3.9010767 | 7996 | 3.9028728 |
| 7931 | 3.8993279 | 7964 | 3.9011313 | 7997 | 3.9029271 |
| 7932 | 3.8993827 | 7965 | 3.9011858 | 7998 | 3.9029814 |
| 7933 | 3.8994375 | 7966 | 3.9012403 | 7999 | 3.9030357 |
| 7934 | 3.8994922 | 7967 | 3.9012948 | 8000 | 3.9030900 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8001 | 3.9031443 | 8034 | 3.9049318 | 8067 | 3.9067121 |
| 8002 | 3.9031985 | 8035 | 3.9049859 | 8068 | 3.9067659 |
| 8003 | 3.9032528 | 8036 | 3.9050399 | 8069 | 3.9068197 |
| 8004 | 3.9033071 | 8037 | 3.9050940 | 8070 | 3.9068735 |
| 8005 | 3.9033613 | 8038 | 3.9051480 | 8071 | 3.9069273 |
| 8006 | 3.9034156 | 8039 | 3.9052020 | 8072 | 3.9069812 |
| 8007 | 3.9034698 | 8040 | 3.9052560 | 8073 | 3.9070350 |
| 8008 | 3.9035241 | 8041 | 3.9053101 | 8074 | 3.9070887 |
| 8009 | 3.9035783 | 8042 | 3.9053641 | 8075 | 3.9071425 |
| 8010 | 3.9036325 | 8043 | 3.9054181 | 8076 | 3.9071963 |
| 8011 | 3.9036867 | 8044 | 3.9054721 | 8077 | 3.9072501 |
| 8012 | 3.9037409 | 8045 | 3.9055260 | 8078 | 3.9073038 |
| 8013 | 3.9037951 | 8046 | 3.9055800 | 8079 | 3.9073576 |
| 8014 | 3.9038493 | 8047 | 3.9056340 | 8080 | 3.9074114 |
| 8015 | 3.9039035 | 8048 | 3.9056880 | 8081 | 3.9074651 |
| 8016 | 3.9039577 | 8049 | 3.9057419 | 8082 | 3.9075188 |
| 8017 | 3.9040119 | 8050 | 3.9057959 | 8083 | 3.9075726 |
| 8018 | 3.9040661 | 8051 | 3.9058498 | 8084 | 3.9076263 |
| 8019 | 3.9041202 | 8052 | 3.9059038 | 8085 | 3.9076800 |
| 8020 | 3.9041744 | 8053 | 3.9059577 | 8086 | 3.9077337 |
| 8021 | 3.9042285 | 8054 | 3.9060116 | 8087 | 3.9077874 |
| 8022 | 3.9042827 | 8055 | 3.9060655 | 8088 | 3.9078411 |
| 8023 | 3.9043368 | 8056 | 3.9061195 | 8089 | 3.9078948 |
| 8024 | 3.9043909 | 8057 | 3.9061734 | 8090 | 3.9079485 |
| 8025 | 3.9044450 | 8058 | 3.9062273 | 8091 | 3.9080022 |
| 8026 | 3.9044992 | 8059 | 3.9062812 | 8092 | 3.9080559 |
| 8027 | 3.9045533 | 8060 | 3.9063350 | 8093 | 3.9081095 |
| 8028 | 3.9046074 | 8061 | 3.9063889 | 8094 | 3.9081632 |
| 8029 | 3.9046615 | 8062 | 3.9064428 | 8095 | 3.9082169 |
| 8030 | 3.9047155 | 8063 | 3.9064967 | 8096 | 3.9082705 |
| 8031 | 3.9047696 | 8064 | 3.9065505 | 8097 | 3.9083241 |
| 8032 | 3.9048237 | 8065 | 3.9066044 | 8098 | 3.9083778 |
| 8033 | 3.9048778 | 8066 | 3.9066582 | 8099 | 3.9084314 |
| 8034 | 3.9049318 | 8067 | 3.9067121 | 8100 | 3.9084850 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8101 | 3.9085386 | 8134 | 3.9103042 | 8167 | 3.9120626 |
| 8102 | 3.9085922 | 8135 | 3.9103576 | 8168 | 3.9121157 |
| 8103 | 3.9086458 | 8136 | 3.9104109 | 8169 | 3.9121689 |
| 8104 | 3.9086994 | 8137 | 3.9104643 | 8170 | 3.9122221 |
| 8105 | 3.9087530 | 8138 | 3.9105177 | 8171 | 3.9122752 |
| 8106 | 3.9088066 | 8139 | 3.9105710 | 8172 | 3.9123284 |
| 8107 | 3.9088602 | 8140 | 3.9106244 | 8173 | 3.9123815 |
| 8108 | 3.9089137 | 8141 | 3.9106778 | 8174 | 3.9124346 |
| 8109 | 3.9089673 | 8142 | 3.9107311 | 8175 | 3.9124878 |
| 8110 | 3.9090209 | 8143 | 3.9107844 | 8176 | 3.9125409 |
| 8111 | 3.9090744 | 8144 | 3.9108378 | 8177 | 3.9125940 |
| 8112 | 3.9091279 | 8145 | 3.9108911 | 8178 | 3.9126471 |
| 8113 | 3.9091815 | 8146 | 3.9109444 | 8179 | 3.9127002 |
| 8114 | 3.9092350 | 8147 | 3.9109977 | 8180 | 3.9127533 |
| 8115 | 3.9092885 | 8148 | 3.9110510 | 8181 | 3.9128064 |
| 8116 | 3.9093420 | 8149 | 3.9111043 | 8182 | 3.9128595 |
| 8117 | 3.9093955 | 8150 | 3.9111576 | 8183 | 3.9129126 |
| 8118 | 3.9094490 | 8151 | 3.9112109 | 8184 | 3.9129656 |
| 8119 | 3.9095025 | 8152 | 3.9112642 | 8185 | 3.9130187 |
| 8120 | 3.9095560 | 8153 | 3.9113174 | 8186 | 3.9130717 |
| 8121 | 3.9096095 | 8154 | 3.9113707 | 8187 | 3.9131248 |
| 8122 | 3.9096630 | 8155 | 3.9114240 | 8188 | 3.9131778 |
| 8123 | 3.9097165 | 8156 | 3.9114772 | 8189 | 3.9132309 |
| 8124 | 3.9097699 | 8157 | 3.9115305 | 8190 | 3.9132839 |
| 8125 | 3.9098234 | 8158 | 3.9115837 | 8191 | 3.9133369 |
| 8126 | 3.9098768 | 8159 | 3.9116369 | 8192 | 3.9133899 |
| 8127 | 3.9099303 | 8160 | 3.9116902 | 8193 | 3.9134430 |
| 8128 | 3.9099837 | 8161 | 3.9117434 | 8194 | 3.9134960 |
| 8129 | 3.9100371 | 8162 | 3.9117966 | 8195 | 3.9135490 |
| 8130 | 3.9100905 | 8163 | 3.9118498 | 8196 | 3.9136019 |
| 8131 | 3.9101440 | 8164 | 3.9119030 | 8197 | 3.9136549 |
| 8132 | 3.9101974 | 8165 | 3.9119562 | 8198 | 3.9137079 |
| 8133 | 3.9102508 | 8166 | 3.9120094 | 8199 | 3.9137609 |
| 8134 | 3.9103042 | 8167 | 3.9120626 | 8200 | 3.9138139 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8201 | 3.9138668 | 8234 | 3.9156109 | 8267 | 3.9173479 |
| 8202 | 3.9139198 | 8235 | 3.9156636 | 8268 | 3.9174005 |
| 8203 | 3.9139727 | 8236 | 3.9157163 | 8269 | 3.9174530 |
| 8204 | 3.9140257 | 8237 | 3.9157691 | 8270 | 3.9175055 |
| 8205 | 3.9140786 | 8238 | 3.9158218 | 8271 | 3.9175580 |
| 8206 | 3.9141315 | 8239 | 3.9158745 | 8272 | 3.9176105 |
| 8207 | 3.9141844 | 8240 | 3.9159272 | 8273 | 3.9176630 |
| 8208 | 3.9142373 | 8241 | 3.9159799 | 8274 | 3.9177155 |
| 8209 | 3.9142903 | 8242 | 3.9160326 | 8275 | 3.9177680 |
| 8210 | 3.9143432 | 8243 | 3.9160853 | 8276 | 3.9178205 |
| 8211 | 3.9143961 | 8244 | 3.9161380 | 8277 | 3.9178730 |
| 8212 | 3.9144489 | 8245 | 3.9161907 | 8278 | 3.9179254 |
| 8213 | 3.9145018 | 8246 | 3.9162433 | 8279 | 3.9179779 |
| 8214 | 3.9145547 | 8247 | 3.9162960 | 8280 | 3.9180303 |
| 8215 | 3.9146076 | 8248 | 3.9163487 | 8281 | 3.9180828 |
| 8216 | 3.9146604 | 8249 | 3.9164013 | 8282 | 3.9181352 |
| 8217 | 3.9147133 | 8250 | 3.9164539 | 8283 | 3.9181877 |
| 8218 | 3.9147661 | 8251 | 3.9165066 | 8284 | 3.9182401 |
| 8219 | 3.9148190 | 8252 | 3.9165592 | 8285 | 3.9182925 |
| 8220 | 3.9148718 | 8253 | 3.9166118 | 8286 | 3.9183449 |
| 8221 | 3.9149246 | 8254 | 3.9166645 | 8287 | 3.9183973 |
| 8222 | 3.9149775 | 8255 | 3.9167171 | 8288 | 3.9184497 |
| 8223 | 3.9150303 | 8256 | 3.9167697 | 8289 | 3.9185021 |
| 8224 | 3.9150831 | 8257 | 3.9168223 | 8290 | 3.9185545 |
| 8225 | 3.9151359 | 8258 | 3.9168749 | 8291 | 3.9186069 |
| 8226 | 3.9151887 | 8259 | 3.9169275 | 8292 | 3.9186593 |
| 8227 | 3.9152415 | 8260 | 3.9169800 | 8293 | 3.9187117 |
| 8228 | 3.9152943 | 8261 | 3.9170326 | 8294 | 3.9187640 |
| 8229 | 3.9153471 | 8262 | 3.9170852 | 8295 | 3.9188164 |
| 8230 | 3.9153998 | 8263 | 3.9171378 | 8296 | 3.9188687 |
| 8231 | 3.9154526 | 8264 | 3.9171903 | 8297 | 3.9189211 |
| 8232 | 3.9155054 | 8265 | 3.9172429 | 8298 | 3.9189734 |
| 8233 | 3.9155581 | 8266 | 3.9172954 | 8299 | 3.9190258 |
| 8234 | 3.9156109 | 8267 | 3.9173479 | 8300 | 3.9190781 |



8300

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8301 | 3.9191304 | 8334 | 3.9208535 | 8367 | 3.9225698 |
| 8302 | 3.9191827 | 8335 | 3.9209056 | 8368 | 3.9226217 |
| 8303 | 3.9192350 | 8336 | 3.9209577 | 8369 | 3.9226736 |
| 8304 | 3.9192873 | 8337 | 3.9210098 | 8370 | 3.9227255 |
| 8305 | 3.9193396 | 8338 | 3.9210619 | 8371 | 3.9227773 |
| 8306 | 3.9193919 | 8339 | 3.9211140 | 8372 | 3.9228292 |
| 8307 | 3.9194442 | 8340 | 3.9211661 | 8373 | 3.9228811 |
| 8308 | 3.9194965 | 8341 | 3.9212181 | 8374 | 3.9229330 |
| 8309 | 3.9195488 | 8342 | 3.9212702 | 8375 | 3.9229848 |
| 8310 | 3.9196010 | 8343 | 3.9213222 | 8376 | 3.9230367 |
| 8311 | 3.9196533 | 8344 | 3.9213743 | 8377 | 3.9230885 |
| 8312 | 3.9197055 | 8345 | 3.9214263 | 8378 | 3.9231404 |
| 8313 | 3.9197578 | 8346 | 3.9214784 | 8379 | 3.9231922 |
| 8314 | 3.9198100 | 8347 | 3.9215304 | 8380 | 3.9232440 |
| 8315 | 3.9198623 | 8348 | 3.9215824 | 8381 | 3.9232958 |
| 8316 | 3.9199145 | 8349 | 3.9216345 | 8382 | 3.9233477 |
| 8317 | 3.9199667 | 8350 | 3.9216865 | 8383 | 3.9233995 |
| 8318 | 3.9200189 | 8351 | 3.9217385 | 8384 | 3.9234513 |
| 8319 | 3.9200711 | 8352 | 3.9217905 | 8385 | 3.9235031 |
| 8320 | 3.9201233 | 8353 | 3.9218425 | 8386 | 3.9235549 |
| 8321 | 3.9201755 | 8354 | 3.9218945 | 8387 | 3.9236066 |
| 8322 | 3.9202277 | 8355 | 3.9219465 | 8388 | 3.9236584 |
| 8323 | 3.9202799 | 8356 | 3.9219984 | 8389 | 3.9237102 |
| 8324 | 3.9203321 | 8357 | 3.9220504 | 8390 | 3.9237620 |
| 8325 | 3.9203842 | 8358 | 3.9221024 | 8391 | 3.9238137 |
| 8326 | 3.9204364 | 8359 | 3.9221543 | 8392 | 3.9238655 |
| 8327 | 3.9204886 | 8360 | 3.9222063 | 8393 | 3.9239172 |
| 8328 | 3.9205407 | 8361 | 3.9222582 | 8394 | 3.9239690 |
| 8329 | 3.9205929 | 8362 | 3.9223102 | 8395 | 3.9240207 |
| 8330 | 3.9206450 | 8363 | 3.9223621 | 8396 | 3.9240724 |
| 8331 | 3.9206971 | 8364 | 3.9224140 | 8397 | 3.9241242 |
| 8332 | 3.9207493 | 8365 | 3.9224659 | 8398 | 3.9241759 |
| 8333 | 3.9208014 | 8366 | 3.9225179 | 8399 | 3.9242276 |
| 8334 | 3.9208535 | 8367 | 3.9225698 | 8300 | 3.9242793 |

N. 176.

8400



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8401 | 3.9243310 | 8434 | 3.9260336 | 8467 | 3.9277296 |
| 8402 | 3.9243827 | 8435 | 3.9260851 | 8468 | 3.9277808 |
| 8403 | 3.9244344 | 8436 | 3.9261366 | 8469 | 3.9278321 |
| 8404 | 3.9244860 | 8437 | 3.9261880 | 8470 | 3.9278834 |
| 8405 | 3.9245377 | 8438 | 3.9262395 | 8471 | 3.9279347 |
| 8406 | 3.9245894 | 8439 | 3.9262910 | 8472 | 3.9279859 |
| 8407 | 3.9246410 | 8440 | 3.9263424 | 8473 | 3.9280372 |
| 8408 | 3.9246927 | 8441 | 3.9263939 | 8474 | 3.9280885 |
| 8409 | 3.9247444 | 8442 | 3.9264453 | 8475 | 3.9281397 |
| 8410 | 3.9247960 | 8443 | 3.9264968 | 8476 | 3.9281909 |
| 8411 | 3.9248476 | 8444 | 3.9265482 | 8477 | 3.9282422 |
| 8412 | 3.9248993 | 8445 | 3.9265997 | 8478 | 3.9282934 |
| 8413 | 3.9249509 | 8446 | 3.9266511 | 8479 | 3.9283446 |
| 8414 | 3.9250025 | 8447 | 3.9267025 | 8480 | 3.9283959 |
| 8415 | 3.9250541 | 8448 | 3.9267539 | 8481 | 3.9284471 |
| 8416 | 3.9251057 | 8449 | 3.9268053 | 8482 | 3.9284983 |
| 8417 | 3.9251573 | 8450 | 3.9268567 | 8483 | 3.9285495 |
| 8418 | 3.9252089 | 8451 | 3.9269081 | 8484 | 3.9286007 |
| 8419 | 3.9252605 | 8452 | 3.9269595 | 8485 | 3.9286518 |
| 8420 | 3.9253121 | 8453 | 3.9270109 | 8486 | 3.9287030 |
| 8421 | 3.9253637 | 8454 | 3.9270622 | 8487 | 3.9287542 |
| 8422 | 3.9254152 | 8455 | 3.9271136 | 8488 | 3.9288054 |
| 8423 | 3.9254668 | 8456 | 3.9271650 | 8489 | 3.9288565 |
| 8424 | 3.9255184 | 8457 | 3.9272163 | 8490 | 3.9289077 |
| 8425 | 3.9255699 | 8458 | 3.9272677 | 8491 | 3.9289588 |
| 8426 | 3.9256215 | 8459 | 3.9273190 | 8492 | 3.9290100 |
| 8427 | 3.9256730 | 8460 | 3.9273704 | 8493 | 3.9290611 |
| 8428 | 3.9257245 | 8461 | 3.9274217 | 8494 | 3.9291123 |
| 8429 | 3.9257761 | 8462 | 3.9274730 | 8495 | 3.9291634 |
| 8430 | 3.9258276 | 8463 | 3.9275243 | 8496 | 3.9292145 |
| 8431 | 3.9258791 | 8464 | 3.9275757 | 8497 | 3.9292656 |
| 8432 | 3.9259306 | 8465 | 3.9276270 | 8498 | 3.9293167 |
| 8433 | 3.9259821 | 8466 | 3.9276783 | 8499 | 3.9293678 |
| 8434 | 3.9260336 | 8467 | 3.9277296 | 8500 | 3.9294189 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8501 | 3.9294700 | 8534 | 3.9311526 | 8567 | 3.9328288 |
| 8502 | 3.9295211 | 8535 | 3.9312035 | 8568 | 3.9328795 |
| 8503 | 3.9295722 | 8536 | 3.9312544 | 8569 | 3.9329301 |
| 8504 | 3.9296233 | 8537 | 3.9313053 | 8570 | 3.9329808 |
| 8505 | 3.9296743 | 8538 | 3.9313561 | 8571 | 3.9330315 |
| 8506 | 3.9297254 | 8539 | 3.9314070 | 8572 | 3.9330822 |
| 8507 | 3.9297764 | 8540 | 3.9314579 | 8573 | 3.9331328 |
| 8508 | 3.9298275 | 8541 | 3.9315087 | 8574 | 3.9331835 |
| 8509 | 3.9298785 | 8542 | 3.9315596 | 8575 | 3.9332341 |
| 8510 | 3.9299296 | 8543 | 3.9316104 | 8576 | 3.9332848 |
| 8511 | 3.9299806 | 8544 | 3.9316612 | 8577 | 3.9333354 |
| 8512 | 3.9300316 | 8545 | 3.9317121 | 8578 | 3.9333860 |
| 8513 | 3.9300826 | 8546 | 3.9317629 | 8579 | 3.9334367 |
| 8514 | 3.9301336 | 8547 | 3.9318137 | 8580 | 3.9334873 |
| 8515 | 3.9301847 | 8548 | 3.9318645 | 8581 | 3.9335379 |
| 8516 | 3.9302357 | 8549 | 3.9319153 | 8582 | 3.9335885 |
| 8517 | 3.9302866 | 8550 | 3.9319661 | 8583 | 3.9336391 |
| 8518 | 3.9303376 | 8551 | 3.9320169 | 8584 | 3.9336897 |
| 8519 | 3.9303886 | 8552 | 3.9320677 | 8585 | 3.9337403 |
| 8520 | 3.9304396 | 8553 | 3.9321185 | 8586 | 3.9337909 |
| 8521 | 3.9304906 | 8554 | 3.9321692 | 8587 | 3.9338415 |
| 8522 | 3.9305415 | 8555 | 3.9322200 | 8588 | 3.9338920 |
| 8523 | 3.9305925 | 8556 | 3.9322708 | 8589 | 3.9339426 |
| 8524 | 3.9306434 | 8557 | 3.9323215 | 8590 | 3.9339932 |
| 8525 | 3.9306944 | 8558 | 3.9323723 | 8591 | 3.9340437 |
| 8526 | 3.9307453 | 8559 | 3.9324230 | 8592 | 3.9340943 |
| 8527 | 3.9307963 | 8560 | 3.9324738 | 8593 | 3.9341448 |
| 8528 | 3.9308472 | 8561 | 3.9325245 | 8594 | 3.9341953 |
| 8529 | 3.9308981 | 8562 | 3.9325752 | 8595 | 3.9342459 |
| 8530 | 3.9309490 | 8563 | 3.9326259 | 8596 | 3.9342964 |
| 8531 | 3.9309999 | 8564 | 3.9326767 | 8597 | 3.9343469 |
| 8532 | 3.9310508 | 8565 | 3.9327274 | 8598 | 3.9343974 |
| 8533 | 3.9311017 | 8566 | 3.9327781 | 8599 | 3.9344479 |
| 8534 | 3.9311526 | 8567 | 3.9328288 | 8600 | 3.9344984 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8601 | 3.9345489 | 8634 | 3.9362120 | 8667 | 3.9378688 |
| 8602 | 3.9345994 | 8635 | 3.9362623 | 8668 | 3.9379189 |
| 8603 | 3.9346499 | 8636 | 3.9363126 | 8669 | 3.9379690 |
| 8604 | 3.9347004 | 8637 | 3.9363629 | 8670 | 3.9380191 |
| 8605 | 3.9347509 | 8638 | 3.9364132 | 8671 | 3.9380692 |
| 8606 | 3.9348013 | 8639 | 3.9364635 | 8672 | 3.9381193 |
| 8607 | 3.9348518 | 8640 | 3.9365137 | 8673 | 3.9381693 |
| 8608 | 3.9349023 | 8641 | 3.9365640 | 8674 | 3.9382194 |
| 8609 | 3.9349527 | 8642 | 3.9366143 | 8675 | 3.9382695 |
| 8610 | 3.9350032 | 8643 | 3.9366645 | 8676 | 3.9383195 |
| 8611 | 3.9350536 | 8644 | 3.9367148 | 8677 | 3.9383696 |
| 8612 | 3.9351040 | 8645 | 3.9367650 | 8678 | 3.9384196 |
| 8613 | 3.9351544 | 8646 | 3.9368152 | 8679 | 3.9384697 |
| 8614 | 3.9352049 | 8647 | 3.9368655 | 8680 | 3.9385197 |
| 8615 | 3.9352553 | 8648 | 3.9369157 | 8681 | 3.9385698 |
| 8616 | 3.9353057 | 8649 | 3.9369659 | 8682 | 3.9386198 |
| 8617 | 3.9353561 | 8650 | 3.9370161 | 8683 | 3.9386698 |
| 8618 | 3.9354065 | 8651 | 3.9370663 | 8684 | 3.9387198 |
| 8619 | 3.9354569 | 8652 | 3.9371165 | 8685 | 3.9387698 |
| 8620 | 3.9355073 | 8653 | 3.9371667 | 8686 | 3.9388198 |
| 8621 | 3.9355576 | 8654 | 3.9372169 | 8687 | 3.9388698 |
| 8622 | 3.9356080 | 8655 | 3.9372671 | 8688 | 3.9389193 |
| 8623 | 3.9356584 | 8656 | 3.9373172 | 8689 | 3.9389698 |
| 8624 | 3.9357087 | 8657 | 3.9373674 | 8690 | 3.9390198 |
| 8625 | 3.9357591 | 8658 | 3.9374176 | 8691 | 3.9390697 |
| 8626 | 3.9358095 | 8659 | 3.9374677 | 8692 | 3.9391197 |
| 8627 | 3.9358598 | 8660 | 3.9375179 | 8693 | 3.9391697 |
| 8628 | 3.9359101 | 8661 | 3.9375680 | 8694 | 3.9392196 |
| 8629 | 3.9359605 | 8662 | 3.9376182 | 8695 | 3.9392696 |
| 8630 | 3.9360108 | 8663 | 3.9376683 | 8696 | 3.9393195 |
| 8631 | 3.9360611 | 8664 | 3.9377184 | 8697 | 3.9393695 |
| 8632 | 3.9361114 | 8665 | 3.9377686 | 8698 | 3.9394194 |
| 8633 | 3.9361617 | 8666 | 3.9378187 | 8699 | 3.9394693 |
| 8634 | 3.9362120 | 8667 | 3.9378688 | 8700 | 3.9395193 |



| N    | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8701 | 3.9395692 | 8734 | 3.9412132 | 8767 | 3.9428510 |
| 8702 | 3.9396191 | 8735 | 3.9412629 | 8768 | 3.9429005 |
| 8703 | 3.9396690 | 8736 | 3.9413126 | 8769 | 3.9429501 |
| 8704 | 3.9397189 | 8737 | 3.9413623 | 8770 | 3.9429996 |
| 8705 | 3.9397688 | 8738 | 3.9414120 | 8771 | 3.9430491 |
| 8706 | 3.9398187 | 8739 | 3.9414617 | 8772 | 3.9430986 |
| 8707 | 3.9398685 | 8740 | 3.9415114 | 8773 | 3.9431481 |
| 8708 | 3.9399184 | 8741 | 3.9415611 | 8774 | 3.9431976 |
| 8709 | 3.9399683 | 8742 | 3.9416108 | 8775 | 3.9432471 |
| 8710 | 3.9400182 | 8743 | 3.9416605 | 8776 | 3.9432966 |
| 8711 | 3.9400680 | 8744 | 3.9417101 | 8777 | 3.9433461 |
| 8712 | 3.9401179 | 8745 | 3.9417598 | 8778 | 3.9433956 |
| 8713 | 3.9401677 | 8746 | 3.9418095 | 8779 | 3.9434450 |
| 8714 | 3.9402176 | 8747 | 3.9418591 | 8780 | 3.9434945 |
| 8715 | 3.9402674 | 8748 | 3.9419088 | 8781 | 3.9435440 |
| 8716 | 3.9403172 | 8749 | 3.9419584 | 8782 | 3.9435934 |
| 8717 | 3.9403670 | 8750 | 3.9420081 | 8783 | 3.9436429 |
| 8718 | 3.9404169 | 8751 | 3.9420577 | 8784 | 3.9436923 |
| 8719 | 3.9404667 | 8752 | 3.9421073 | 8785 | 3.9437418 |
| 8720 | 3.9405165 | 8753 | 3.9421569 | 8786 | 3.9437912 |
| 8721 | 3.9405663 | 8754 | 3.9422065 | 8787 | 3.9438406 |
| 8722 | 3.9406161 | 8755 | 3.9422561 | 8788 | 3.9438900 |
| 8723 | 3.9406659 | 8756 | 3.9423058 | 8789 | 3.9439395 |
| 8724 | 3.9407157 | 8757 | 3.9423553 | 8790 | 3.9439889 |
| 8725 | 3.9407654 | 8758 | 3.9424049 | 8791 | 3.9440383 |
| 8726 | 3.9408152 | 8759 | 3.9424545 | 8792 | 3.9440877 |
| 8727 | 3.9408650 | 8760 | 3.9425041 | 8793 | 3.9441371 |
| 8728 | 3.9409147 | 8761 | 3.9425537 | 8794 | 3.9441865 |
| 8729 | 3.9409645 | 8762 | 3.9426032 | 8795 | 3.9442358 |
| 8730 | 3.9410142 | 8763 | 3.9426528 | 8796 | 3.9442852 |
| 8731 | 3.9410640 | 8764 | 3.9427024 | 8797 | 3.9443346 |
| 8732 | 3.9411137 | 8765 | 3.9427519 | 8798 | 3.9443840 |
| 8733 | 3.9411635 | 8766 | 3.9428015 | 8799 | 3.9444333 |
| 8734 | 3.9412132 | 8767 | 3.9428510 | 8800 | 3.9444827 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8801 | 3.9445320 | 8834 | 3.9461574 | 8867 | 3.9477767 |
| 8802 | 3.9445814 | 8835 | 3.9462066 | 8868 | 3.9478257 |
| 8803 | 3.9446307 | 8836 | 3.9462557 | 8869 | 3.9478747 |
| 8804 | 3.9446800 | 8837 | 3.9463049 | 8870 | 3.9479236 |
| 8805 | 3.9447294 | 8838 | 3.9463540 | 8871 | 3.9479726 |
| 8806 | 3.9447787 | 8839 | 3.9464031 | 8872 | 3.9480215 |
| 8807 | 3.9448280 | 8840 | 3.9464523 | 8873 | 3.9480705 |
| 8808 | 3.9448773 | 8841 | 3.9465014 | 8874 | 3.9481194 |
| 8809 | 3.9449266 | 8842 | 3.9465505 | 8875 | 3.9481684 |
| 8810 | 3.9449759 | 8843 | 3.9465996 | 8876 | 3.9482173 |
| 8811 | 3.9450252 | 8844 | 3.9466487 | 8877 | 3.9482662 |
| 8812 | 3.9450745 | 8845 | 3.9466978 | 8878 | 3.9483151 |
| 8813 | 3.9451238 | 8846 | 3.9467469 | 8879 | 3.9483641 |
| 8814 | 3.9451730 | 8847 | 3.9467960 | 8880 | 3.9484130 |
| 8815 | 3.9452223 | 8848 | 3.9468451 | 8881 | 3.9484619 |
| 8816 | 3.9452716 | 8849 | 3.9468942 | 8882 | 3.9485108 |
| 8817 | 3.9453208 | 8850 | 3.9469433 | 8883 | 3.9485597 |
| 8818 | 3.9453701 | 8851 | 3.9469923 | 8884 | 3.9486085 |
| 8819 | 3.9454193 | 8852 | 3.9470414 | 8885 | 3.9486574 |
| 8820 | 3.9454686 | 8853 | 3.9470905 | 8886 | 3.9487063 |
| 8821 | 3.9455178 | 8854 | 3.9471395 | 8887 | 3.9487552 |
| 8822 | 3.9455671 | 8855 | 3.9471886 | 8888 | 3.9488040 |
| 8823 | 3.9456163 | 8856 | 3.9472376 | 8889 | 3.9488529 |
| 8824 | 3.9456655 | 8857 | 3.9472866 | 8890 | 3.9489018 |
| 8825 | 3.9457147 | 8858 | 3.9473357 | 8891 | 3.9489506 |
| 8826 | 3.9457639 | 8859 | 3.9473847 | 8892 | 3.9489995 |
| 8827 | 3.9458131 | 8860 | 3.9474337 | 8893 | 3.9490483 |
| 8828 | 3.9458623 | 8861 | 3.9474827 | 8894 | 3.9490971 |
| 8829 | 3.9459115 | 8862 | 3.9475317 | 8895 | 3.9491460 |
| 8830 | 3.9459607 | 8863 | 3.9475807 | 8896 | 3.9491948 |
| 8831 | 3.9460099 | 8864 | 3.9476297 | 8897 | 3.9492436 |
| 8832 | 3.9460541 | 8865 | 3.9476787 | 8898 | 3.9492924 |
| 8833 | 3.9461082 | 8866 | 3.9477277 | 8899 | 3.9493412 |
| 8834 | 3.9461574 | 8867 | 3.9477767 | 8900 | 3.9493900 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8901 | 3.9494388 | 8934 | 3.9510459 | 8967 | 3.9526472 |
| 8902 | 3.9494876 | 8935 | 3.9510946 | 8968 | 3.9526956 |
| 8903 | 3.9495364 | 8936 | 3.9511432 | 8969 | 3.9527440 |
| 8904 | 3.9495852 | 8937 | 3.9511918 | 8970 | 3.9527924 |
| 8905 | 3.9496339 | 8938 | 3.9512404 | 8971 | 3.9528409 |
| 8906 | 3.9496827 | 8939 | 3.9512889 | 8972 | 3.9528893 |
| 8907 | 3.9497315 | 8940 | 3.9513375 | 8973 | 3.9529377 |
| 8908 | 3.9497802 | 8941 | 3.9513861 | 8974 | 3.9529861 |
| 8909 | 3.9498290 | 8942 | 3.9514347 | 8975 | 3.9530345 |
| 8910 | 3.9498777 | 8943 | 3.9514832 | 8976 | 3.9530828 |
| 8911 | 3.9499264 | 8944 | 3.9515318 | 8977 | 3.9531312 |
| 8912 | 3.9499752 | 8945 | 3.9515803 | 8978 | 3.9531796 |
| 8913 | 3.9500239 | 8946 | 3.9516289 | 8979 | 3.9532280 |
| 8914 | 3.9500726 | 8947 | 3.9516774 | 8980 | 3.9532763 |
| 8915 | 3.9501213 | 8948 | 3.9517260 | 8981 | 3.9533247 |
| 8916 | 3.9501701 | 8949 | 3.9517745 | 8982 | 3.9533730 |
| 8917 | 3.9502188 | 8950 | 3.9518230 | 8983 | 3.9534214 |
| 8918 | 3.9502675 | 8951 | 3.9518716 | 8984 | 3.9534697 |
| 8919 | 3.9503162 | 8952 | 3.9519201 | 8985 | 3.9535181 |
| 8920 | 3.9503649 | 8953 | 3.9519686 | 8986 | 3.9535664 |
| 8921 | 3.9504135 | 8954 | 3.9520171 | 8987 | 3.9536147 |
| 8922 | 3.9504622 | 8955 | 3.9520656 | 8988 | 3.9536631 |
| 8923 | 3.9505109 | 8956 | 3.9521141 | 8989 | 3.9537114 |
| 8924 | 3.9505596 | 8957 | 3.9521626 | 8990 | 3.9537597 |
| 8925 | 3.9506082 | 8958 | 3.9522111 | 8991 | 3.9538080 |
| 8926 | 3.9506569 | 8959 | 3.9522595 | 8992 | 3.9538563 |
| 8927 | 3.9507055 | 8960 | 3.9523080 | 8993 | 3.9539046 |
| 8928 | 3.9507542 | 8961 | 3.9523565 | 8994 | 3.9539529 |
| 8929 | 3.9508028 | 8962 | 3.9524049 | 8995 | 3.9540012 |
| 8930 | 3.9508515 | 8963 | 3.9524534 | 8996 | 3.9540494 |
| 8931 | 3.9509001 | 8964 | 3.9525018 | 8997 | 3.9540977 |
| 8932 | 3.9509487 | 8965 | 3.9525503 | 8998 | 3.9541460 |
| 8933 | 3.9509973 | 8966 | 3.9525987 | 8999 | 3.9541943 |
| 8934 | 3.9510459 | 8967 | 3.9526472 | 9000 | 3.9542425 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9001 | 3.9542908 | 9034 | 3.9558801 | 9067 | 3.9574636 |
| 9002 | 3.9543390 | 9035 | 3.9559282 | 9068 | 3.9575115 |
| 9003 | 3.9543872 | 9036 | 3.9559762 | 9069 | 3.9575594 |
| 9004 | 3.9544355 | 9037 | 3.9560243 | 9070 | 3.9576073 |
| 9005 | 3.9544837 | 9038 | 3.9560723 | 9071 | 3.9576552 |
| 9006 | 3.9545319 | 9039 | 3.9561204 | 9072 | 3.9577030 |
| 9007 | 3.9545802 | 9040 | 3.9561684 | 9073 | 3.9577509 |
| 9008 | 3.9546284 | 9041 | 3.9562165 | 9074 | 3.9577988 |
| 9009 | 3.9546766 | 9042 | 3.9562645 | 9075 | 3.9578466 |
| 9010 | 3.9547248 | 9043 | 3.9563125 | 9076 | 3.9578945 |
| 9011 | 3.9547730 | 9044 | 3.9563606 | 9077 | 3.9579423 |
| 9012 | 3.9548212 | 9045 | 3.9564086 | 9078 | 3.9579902 |
| 9013 | 3.9548694 | 9046 | 3.9564566 | 9079 | 3.9580380 |
| 9014 | 3.9549176 | 9047 | 3.9565046 | 9080 | 3.9580858 |
| 9015 | 3.9549657 | 9048 | 3.9565526 | 9081 | 3.9581337 |
| 9016 | 3.9550139 | 9049 | 3.9566006 | 9082 | 3.9581815 |
| 9017 | 3.9550621 | 9050 | 3.9566486 | 9083 | 3.9582293 |
| 9018 | 3.9551102 | 9051 | 3.9566966 | 9084 | 3.9582771 |
| 9019 | 3.9551584 | 9052 | 3.9567445 | 9085 | 3.9583249 |
| 9020 | 3.9552065 | 9053 | 3.9567925 | 9086 | 3.9583727 |
| 9021 | 3.9552547 | 9054 | 3.9568405 | 9087 | 3.9584205 |
| 9022 | 3.9553028 | 9055 | 3.9568885 | 9088 | 3.9584683 |
| 9023 | 3.9553510 | 9056 | 3.9569364 | 9089 | 3.9585161 |
| 9024 | 3.9553991 | 9057 | 3.9569844 | 9090 | 3.9585639 |
| 9025 | 3.9554472 | 9058 | 3.9570323 | 9091 | 3.9586117 |
| 9026 | 3.9554953 | 9059 | 3.9570803 | 9092 | 3.9586594 |
| 9027 | 3.9555434 | 9060 | 3.9571282 | 9093 | 3.9587072 |
| 9028 | 3.9555915 | 9061 | 3.9571761 | 9094 | 3.9587549 |
| 9029 | 3.9556397 | 9062 | 3.9572241 | 9095 | 3.9588027 |
| 9030 | 3.9556877 | 9063 | 3.9572720 | 9096 | 3.9588505 |
| 9031 | 3.9557358 | 9064 | 3.9573199 | 9097 | 3.9588982 |
| 9032 | 3.9557839 | 9065 | 3.9573678 | 9098 | 3.9589459 |
| 9033 | 3.9558320 | 9066 | 3.9574157 | 9099 | 3.9589937 |
| 9034 | 3.9558801 | 9067 | 3.9574636 | 9100 | 3.9590414 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9101 | 3.9590891 | 9134 | 3.9606610 | 9167 | 3.9622272 |
| 9102 | 3.9591368 | 9135 | 3.9607086 | 9168 | 3.9622746 |
| 9103 | 3.9591845 | 9136 | 3.9607561 | 9169 | 3.9623220 |
| 9104 | 3.9592322 | 9137 | 3.9608036 | 9170 | 3.9623693 |
| 9105 | 3.9592799 | 9138 | 3.9608512 | 9171 | 3.9624167 |
| 9106 | 3.9593276 | 9139 | 3.9608987 | 9172 | 3.9624640 |
| 9107 | 3.9593753 | 9140 | 3.9609462 | 9173 | 3.9625114 |
| 9108 | 3.9594230 | 9141 | 3.9609937 | 9174 | 3.9625587 |
| 9109 | 3.9594707 | 9142 | 3.9610412 | 9175 | 3.9626061 |
| 9110 | 3.9595184 | 9143 | 3.9610887 | 9176 | 3.9626534 |
| 9111 | 3.9595660 | 9144 | 3.9611362 | 9177 | 3.9627007 |
| 9112 | 3.9596137 | 9145 | 3.9611837 | 9178 | 3.9627481 |
| 9113 | 3.9596614 | 9146 | 3.9612312 | 9179 | 3.9627954 |
| 9114 | 3.9597090 | 9147 | 3.9612787 | 9180 | 3.9628427 |
| 9115 | 3.9597567 | 9148 | 3.9613262 | 9181 | 3.9628900 |
| 9116 | 3.9598043 | 9149 | 3.9613736 | 9182 | 3.9629373 |
| 9117 | 3.9598520 | 9150 | 3.9614211 | 9183 | 3.9629846 |
| 9118 | 3.9598996 | 9151 | 3.9614686 | 9184 | 3.9630319 |
| 9119 | 3.9599472 | 9152 | 3.9615160 | 9185 | 3.9630792 |
| 9120 | 3.9599948 | 9153 | 3.9615635 | 9186 | 3.9631264 |
| 9121 | 3.9600425 | 9154 | 3.9616109 | 9187 | 3.9631737 |
| 9122 | 3.9600901 | 9155 | 3.9616583 | 9188 | 3.9632210 |
| 9123 | 3.9601377 | 9156 | 3.9617058 | 9189 | 3.9632683 |
| 9124 | 3.9601853 | 9157 | 3.9617532 | 9190 | 3.9633155 |
| 9125 | 3.9602329 | 9158 | 3.9618006 | 9191 | 3.9633628 |
| 9126 | 3.9602805 | 9159 | 3.9618481 | 9192 | 3.9634100 |
| 9127 | 3.9603280 | 9160 | 3.9618955 | 9193 | 3.9634573 |
| 9128 | 3.9603756 | 9161 | 3.9619429 | 9194 | 3.9635045 |
| 9129 | 3.9604232 | 9162 | 3.9619903 | 9195 | 3.9635517 |
| 9130 | 3.9604708 | 9163 | 3.9620377 | 9196 | 3.9635990 |
| 9131 | 3.9605183 | 9164 | 3.9620851 | 9197 | 3.9636462 |
| 9132 | 3.9605659 | 9165 | 3.9621325 | 9198 | 3.9636934 |
| 9133 | 3.9606135 | 9166 | 3.9621799 | 9199 | 3.9637406 |
| 9134 | 3.9606610 | 9167 | 3.9622272 | 9200 | 3.9637878 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9201 | 3.9638350 | 9234 | 3.9653899 | 9267 | 3.9669392 |
| 9202 | 3.9638822 | 9235 | 3.9654369 | 9268 | 3.9669860 |
| 9203 | 3.9639294 | 9236 | 3.9654839 | 9269 | 3.9670329 |
| 9204 | 3.9639766 | 9237 | 3.9655309 | 9270 | 3.9670797 |
| 9205 | 3.9640238 | 9238 | 3.9655780 | 9271 | 3.9671266 |
| 9206 | 3.9640710 | 9239 | 3.9656250 | 9272 | 3.9671734 |
| 9207 | 3.9641181 | 9240 | 3.9656720 | 9273 | 3.9672203 |
| 9208 | 3.9641653 | 9241 | 3.9657190 | 9274 | 3.9672671 |
| 9209 | 3.9642125 | 9242 | 3.9657660 | 9275 | 3.9673139 |
| 9210 | 3.9642596 | 9243 | 3.9658130 | 9276 | 3.9673607 |
| 9211 | 3.9643068 | 9244 | 3.9658599 | 9277 | 3.9674076 |
| 9212 | 3.9643539 | 9245 | 3.9659069 | 9278 | 3.9674544 |
| 9213 | 3.9644011 | 9246 | 3.9659539 | 9279 | 3.9675012 |
| 9214 | 3.9644482 | 9247 | 3.9660009 | 9280 | 3.9675480 |
| 9215 | 3.9644953 | 9248 | 3.9660478 | 9281 | 3.9675948 |
| 9216 | 3.9645425 | 9249 | 3.9660948 | 9282 | 3.9676416 |
| 9217 | 3.9645896 | 9250 | 3.9661417 | 9283 | 3.9676883 |
| 9218 | 3.9646367 | 9251 | 3.9661887 | 9284 | 3.9677351 |
| 9219 | 3.9646838 | 9252 | 3.9662356 | 9285 | 3.9677819 |
| 9220 | 3.9647309 | 9253 | 3.9662826 | 9286 | 3.9678287 |
| 9221 | 3.9647780 | 9254 | 3.9663295 | 9287 | 3.9678754 |
| 9222 | 3.9648251 | 9255 | 3.9663764 | 9288 | 3.9679222 |
| 9223 | 3.9648722 | 9256 | 3.9664233 | 9289 | 3.9679690 |
| 9224 | 3.9649193 | 9257 | 3.9664703 | 9290 | 3.9680157 |
| 9225 | 3.9649664 | 9258 | 3.9665172 | 9291 | 3.9680625 |
| 9226 | 3.9650134 | 9259 | 3.9665641 | 9292 | 3.9681092 |
| 9227 | 3.9650605 | 9260 | 3.9666110 | 9293 | 3.9681559 |
| 9228 | 3.9651076 | 9261 | 3.9666579 | 9294 | 3.9682027 |
| 9229 | 3.9651546 | 9262 | 3.9667048 | 9295 | 3.9682494 |
| 9230 | 3.9652017 | 9263 | 3.9667517 | 9296 | 3.9682961 |
| 9231 | 3.9652488 | 9264 | 3.9667985 | 9297 | 3.9683428 |
| 9232 | 3.9652958 | 9265 | 3.9668454 | 9298 | 3.9683895 |
| 9233 | 3.9653428 | 9266 | 3.9668923 | 9299 | 3.9684362 |
| 9234 | 3.9653899 | 9267 | 3.9669392 | 9300 | 3.9684829 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9301 | 3.9685296 | 9334 | 3.9700678 | 9367 | 3.9716005 |
| 9302 | 3.9685763 | 9335 | 3.9701143 | 9368 | 3.9716469 |
| 9303 | 3.9686230 | 9336 | 3.9701608 | 9369 | 3.9716932 |
| 9304 | 3.9686697 | 9337 | 3.9702074 | 9370 | 3.9717396 |
| 9305 | 3.9687164 | 9338 | 3.9702539 | 9371 | 3.9717859 |
| 9306 | 3.9687630 | 9339 | 3.9703004 | 9372 | 3.9718323 |
| 9307 | 3.9688097 | 9340 | 3.9703469 | 9373 | 3.9718786 |
| 9308 | 3.9688564 | 9341 | 3.9703934 | 9374 | 3.9719249 |
| 9309 | 3.9689030 | 9342 | 3.9704399 | 9375 | 3.9719713 |
| 9310 | 3.9689497 | 9343 | 3.9704863 | 9376 | 3.9720176 |
| 9311 | 3.9689963 | 9344 | 3.9705328 | 9377 | 3.9720639 |
| 9312 | 3.9690430 | 9345 | 3.9705793 | 9378 | 3.9721102 |
| 9313 | 3.9690896 | 9346 | 3.9706258 | 9379 | 3.9721565 |
| 9314 | 3.9691362 | 9347 | 3.9706722 | 9380 | 3.9722028 |
| 9315 | 3.9691829 | 9348 | 3.9707187 | 9381 | 3.9722491 |
| 9316 | 3.9692295 | 9349 | 3.9707652 | 9382 | 3.9722954 |
| 9317 | 3.9692761 | 9350 | 3.9708116 | 9383 | 3.9723417 |
| 9318 | 3.9693227 | 9351 | 3.9708581 | 9384 | 3.9723880 |
| 9319 | 3.9693693 | 9352 | 3.9709045 | 9385 | 3.9724343 |
| 9320 | 3.9694159 | 9353 | 3.9709509 | 9386 | 3.9724805 |
| 9321 | 3.9694625 | 9354 | 3.9709974 | 9387 | 3.9725268 |
| 9322 | 3.9695091 | 9355 | 3.9710438 | 9388 | 3.9725731 |
| 9323 | 3.9695557 | 9356 | 3.9710902 | 9389 | 3.9726193 |
| 9324 | 3.9696023 | 9357 | 3.9711366 | 9390 | 3.9726656 |
| 9325 | 3.9696488 | 9358 | 3.9711830 | 9391 | 3.9727118 |
| 9326 | 3.9696954 | 9359 | 3.9712294 | 9392 | 3.9727581 |
| 9327 | 3.9697420 | 9360 | 3.9712758 | 9393 | 3.9728043 |
| 9328 | 3.9697885 | 9361 | 3.9713222 | 9394 | 3.9728506 |
| 9329 | 3.9698351 | 9362 | 3.9713686 | 9395 | 3.9728968 |
| 9330 | 3.9698816 | 9363 | 3.9714150 | 9396 | 3.9729430 |
| 9331 | 3.9699282 | 9364 | 3.9714614 | 9397 | 3.9729892 |
| 9332 | 3.9699747 | 9365 | 3.9715078 | 9398 | 3.9730354 |
| 9333 | 3.9700213 | 9366 | 3.9715542 | 9399 | 3.9730816 |
| 9334 | 3.9700678 | 9367 | 3.9716005 | 9300 | 3.9731279 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9401 | 3.9731741 | 9434 | 3.9746959 | 9467 | 3.9762124 |
| 9402 | 3.9732202 | 9435 | 3.9747419 | 9468 | 3.9762582 |
| 9403 | 3.9732664 | 9436 | 3.9747879 | 9469 | 3.9763041 |
| 9404 | 3.9733126 | 9437 | 3.9748340 | 9470 | 3.9763500 |
| 9405 | 3.9733588 | 9438 | 3.9748800 | 9471 | 3.9763958 |
| 9406 | 3.9734050 | 9439 | 3.9749260 | 9472 | 3.9764417 |
| 9407 | 3.9734511 | 9440 | 3.9749720 | 9473 | 3.9764875 |
| 9408 | 3.9734973 | 9441 | 3.9750180 | 9474 | 3.9765334 |
| 9409 | 3.9735435 | 9442 | 3.9750640 | 9475 | 3.9765792 |
| 9410 | 3.9735896 | 9443 | 3.9751100 | 9476 | 3.9766251 |
| 9411 | 3.9736358 | 9444 | 3.9751560 | 9477 | 3.9766709 |
| 9412 | 3.9736819 | 9445 | 3.9752020 | 9478 | 3.9767167 |
| 9413 | 3.9737281 | 9446 | 3.9752479 | 9479 | 3.9767625 |
| 9414 | 3.9737742 | 9447 | 3.9752939 | 9480 | 3.9768083 |
| 9415 | 3.9738203 | 9448 | 3.9753399 | 9481 | 3.9768541 |
| 9416 | 3.9738664 | 9449 | 3.9753858 | 9482 | 3.9768999 |
| 9417 | 3.9739126 | 9450 | 3.9754318 | 9483 | 3.9769457 |
| 9418 | 3.9739587 | 9451 | 3.9754778 | 9484 | 3.9769915 |
| 9419 | 3.9740048 | 9452 | 3.9755237 | 9485 | 3.9770373 |
| 9420 | 3.9740509 | 9453 | 3.9755697 | 9486 | 3.9770831 |
| 9421 | 3.9740970 | 9454 | 3.9756156 | 9487 | 3.9771289 |
| 9422 | 3.9741431 | 9455 | 3.9756615 | 9488 | 3.9771747 |
| 9423 | 3.9741892 | 9456 | 3.9757075 | 9489 | 3.9772204 |
| 9424 | 3.9742353 | 9457 | 3.9757534 | 9490 | 3.9772662 |
| 9425 | 3.9742814 | 9458 | 3.9757993 | 9491 | 3.9773120 |
| 9426 | 3.9743274 | 9459 | 3.9758452 | 9492 | 3.9773577 |
| 9427 | 3.9743735 | 9460 | 3.9758911 | 9493 | 3.9774035 |
| 9428 | 3.9744196 | 9461 | 3.9759370 | 9494 | 3.9774492 |
| 9429 | 3.9744656 | 9462 | 3.9759829 | 9495 | 3.9774950 |
| 9430 | 3.9745117 | 9463 | 3.9760288 | 9496 | 3.9775407 |
| 9431 | 3.9745577 | 9464 | 3.9760747 | 9497 | 3.9775864 |
| 9432 | 3.9746038 | 9465 | 3.9761206 | 9498 | 3.9776322 |
| 9433 | 3.9746498 | 9466 | 3.9761665 | 9499 | 3.9776779 |
| 9434 | 3.9746959 | 9467 | 3.9762124 | 9500 | 3.9777236 |



9500

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9501 | 3.9777693 | 9534 | 3.9792751 | 9567 | 3.9807758 |
| 9502 | 3.9778150 | 9535 | 3.9793207 | 9568 | 3.9808212 |
| 9503 | 3.9778607 | 9536 | 3.9793662 | 9569 | 3.9808666 |
| 9504 | 3.9779064 | 9537 | 3.9794118 | 9570 | 3.9809119 |
| 9505 | 3.9779521 | 9538 | 3.9794573 | 9571 | 3.9809573 |
| 9506 | 3.9779978 | 9539 | 3.9795028 | 9572 | 3.9810027 |
| 9507 | 3.9780435 | 9540 | 3.9795484 | 9573 | 3.9810481 |
| 9508 | 3.9780892 | 9541 | 3.9795939 | 9574 | 3.9810934 |
| 9509 | 3.9781348 | 9542 | 3.9796394 | 9575 | 3.9811388 |
| 9510 | 3.9781805 | 9543 | 3.9796849 | 9576 | 3.9811841 |
| 9511 | 3.9782262 | 9544 | 3.9797304 | 9577 | 3.9812295 |
| 9512 | 3.9782718 | 9545 | 3.9797759 | 9578 | 3.9812748 |
| 9513 | 3.9783175 | 9546 | 3.9798214 | 9579 | 3.9813202 |
| 9514 | 3.9783631 | 9547 | 3.9798669 | 9580 | 3.9813655 |
| 9515 | 3.9784088 | 9548 | 3.9799124 | 9581 | 3.9814108 |
| 9516 | 3.9784544 | 9549 | 3.9799579 | 9582 | 3.9814562 |
| 9517 | 3.9785001 | 9550 | 3.9800034 | 9583 | 3.9815015 |
| 9518 | 3.9785457 | 9551 | 3.9800488 | 9584 | 3.9815468 |
| 9519 | 3.9785913 | 9552 | 3.9800943 | 9585 | 3.9815921 |
| 9520 | 3.9786369 | 9553 | 3.9801398 | 9586 | 3.9816374 |
| 9521 | 3.9786826 | 9554 | 3.9801852 | 9587 | 3.9816827 |
| 9522 | 3.9787282 | 9555 | 3.9802307 | 9588 | 3.9817280 |
| 9523 | 3.9787738 | 9556 | 3.9802761 | 9589 | 3.9817733 |
| 9524 | 3.9788194 | 9557 | 3.9803216 | 9590 | 3.9818186 |
| 9525 | 3.9788650 | 9558 | 3.9803670 | 9591 | 3.9818639 |
| 9526 | 3.9789106 | 9559 | 3.9804125 | 9592 | 3.9819092 |
| 9527 | 3.9789562 | 9560 | 3.9804579 | 9593 | 3.9819544 |
| 9528 | 3.9790017 | 9561 | 3.9805033 | 9594 | 3.9819997 |
| 9529 | 3.9790473 | 9562 | 3.9805487 | 9595 | 3.9820450 |
| 9530 | 3.9790929 | 9563 | 3.9805942 | 9596 | 3.9820902 |
| 9531 | 3.9791385 | 9564 | 3.9806396 | 9597 | 3.9821355 |
| 9532 | 3.9791840 | 9565 | 3.9806850 | 9598 | 3.9821807 |
| 9533 | 3.9792296 | 9566 | 3.9807304 | 9599 | 3.9822260 |
| 9534 | 3.9792751 | 9567 | 3.9807758 | 9600 | 3.9822712 |

N. 188.

9600

3.99.8  
 3.00.8  
 3.26.8 3.26  
 3.99.8 3.99.



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9601 | 3.9823165 | 9634 | 3.9838066 | 9667 | 3.9852917 |
| 9602 | 3.9823617 | 9635 | 3.9838517 | 9668 | 3.9853366 |
| 9603 | 3.9824069 | 9636 | 3.9838968 | 9669 | 3.9853816 |
| 9604 | 3.9824522 | 9637 | 3.9839419 | 9670 | 3.9854265 |
| 9605 | 3.9824974 | 9638 | 3.9839869 | 9671 | 3.9854714 |
| 9606 | 3.9825426 | 9639 | 3.9840320 | 9672 | 3.9855163 |
| 9607 | 3.9825878 | 9640 | 3.9840770 | 9673 | 3.9855612 |
| 9608 | 3.9826330 | 9641 | 3.9841221 | 9674 | 3.9856061 |
| 9609 | 3.9826782 | 9642 | 3.9841671 | 9675 | 3.9856510 |
| 9610 | 3.9827234 | 9643 | 3.9842122 | 9676 | 3.9856959 |
| 9611 | 3.9827686 | 9644 | 3.9842572 | 9677 | 3.9857407 |
| 9612 | 3.9828138 | 9645 | 3.9843022 | 9678 | 3.9857856 |
| 9613 | 3.9828589 | 9646 | 3.9843473 | 9679 | 3.9858305 |
| 9614 | 3.9829041 | 9647 | 3.9843923 | 9680 | 3.9858754 |
| 9615 | 3.9829493 | 9648 | 3.9844373 | 9681 | 3.9859202 |
| 9616 | 3.9829945 | 9649 | 3.9844823 | 9682 | 3.9859651 |
| 9617 | 3.9830396 | 9650 | 3.9845273 | 9683 | 3.9860099 |
| 9618 | 3.9830848 | 9651 | 3.9845723 | 9684 | 3.9860548 |
| 9619 | 3.9831299 | 9652 | 3.9846173 | 9685 | 3.9860996 |
| 9620 | 3.9831751 | 9653 | 3.9846623 | 9686 | 3.9861445 |
| 9621 | 3.9832202 | 9654 | 3.9847073 | 9687 | 3.9861893 |
| 9622 | 3.9832654 | 9655 | 3.9847523 | 9688 | 3.9862341 |
| 9623 | 3.9833105 | 9656 | 3.9847973 | 9689 | 3.9862790 |
| 9624 | 3.9833556 | 9657 | 3.9848422 | 9690 | 3.9863238 |
| 9625 | 3.9834007 | 9658 | 3.9848872 | 9691 | 3.9863686 |
| 9626 | 3.9834459 | 9659 | 3.9849322 | 9692 | 3.9864134 |
| 9627 | 3.9834910 | 9660 | 3.9849771 | 9693 | 3.9864582 |
| 9628 | 3.9835361 | 9661 | 3.9850221 | 9694 | 3.9865030 |
| 9629 | 3.9835812 | 9662 | 3.9850670 | 9695 | 3.9865478 |
| 9630 | 3.9836263 | 9663 | 3.9851120 | 9696 | 3.9865926 |
| 9631 | 3.9836714 | 9664 | 3.9851569 | 9697 | 3.9866374 |
| 9632 | 3.9837165 | 9665 | 3.9852019 | 9698 | 3.9866822 |
| 9633 | 3.9837616 | 9666 | 3.9852468 | 9699 | 3.9867270 |
| 9634 | 3.9838066 | 9667 | 3.9852917 | 9700 | 3.9867717 |



| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9701 | 3.9868165 | 9734 | 3.9882913 | 9767 | 3.9897612 |
| 9702 | 3.9868613 | 9735 | 3.9883360 | 9768 | 3.9898056 |
| 9703 | 3.9869060 | 9736 | 3.9883806 | 9769 | 3.9898501 |
| 9704 | 3.9869508 | 9737 | 3.9884252 | 9770 | 3.9898946 |
| 9705 | 3.9869955 | 9738 | 3.9884698 | 9771 | 3.9899390 |
| 9706 | 3.9870403 | 9739 | 3.9885144 | 9772 | 3.9899835 |
| 9707 | 3.9870850 | 9740 | 3.9885590 | 9773 | 3.9900279 |
| 9708 | 3.9871298 | 9741 | 3.9886035 | 9774 | 3.9900722 |
| 9709 | 3.9871745 | 9742 | 3.9886481 | 9775 | 3.9901168 |
| 9710 | 3.9872192 | 9743 | 3.9886927 | 9776 | 3.9901612 |
| 9711 | 3.9872640 | 9744 | 3.9887373 | 9777 | 3.9902056 |
| 9712 | 3.9873087 | 9745 | 3.9887818 | 9778 | 3.9902500 |
| 9713 | 3.9873534 | 9746 | 3.9888264 | 9779 | 3.9902944 |
| 9714 | 3.9873981 | 9747 | 3.9888710 | 9780 | 3.9903389 |
| 9715 | 3.9874428 | 9748 | 3.9889155 | 9781 | 3.9903833 |
| 9716 | 3.9874875 | 9749 | 3.9889601 | 9782 | 3.9904277 |
| 9717 | 3.9875322 | 9750 | 3.9890046 | 9783 | 3.9904721 |
| 9718 | 3.9875769 | 9751 | 3.9890492 | 9784 | 3.9905164 |
| 9719 | 3.9876216 | 9752 | 3.9890937 | 9785 | 3.9905608 |
| 9720 | 3.9876663 | 9753 | 3.9891382 | 9786 | 3.9906052 |
| 9721 | 3.9877109 | 9754 | 3.9891828 | 9787 | 3.9906496 |
| 9722 | 3.9877556 | 9755 | 3.9892273 | 9788 | 3.9906940 |
| 9723 | 3.9878003 | 9756 | 3.9892718 | 9789 | 3.9907383 |
| 9724 | 3.9878449 | 9757 | 3.9893163 | 9790 | 3.9907827 |
| 9725 | 3.9878896 | 9758 | 3.9893608 | 9791 | 3.9908270 |
| 9726 | 3.9879343 | 9759 | 3.9894053 | 9792 | 3.9908714 |
| 9727 | 3.9879789 | 9760 | 3.9894498 | 9793 | 3.9909158 |
| 9728 | 3.9880236 | 9761 | 3.9894943 | 9794 | 3.9909601 |
| 9729 | 3.9880682 | 9762 | 3.9895388 | 9795 | 3.9910044 |
| 9730 | 3.9881128 | 9763 | 3.9895833 | 9796 | 3.9910488 |
| 9731 | 3.9881575 | 9764 | 3.9896278 | 9797 | 3.9910931 |
| 9732 | 3.9882021 | 9765 | 3.9896722 | 9798 | 3.9911374 |
| 9733 | 3.9882467 | 9766 | 3.9897167 | 9799 | 3.9911818 |
| 9734 | 3.9882913 | 9767 | 3.9897612 | 9800 | 3.9912261 |



9800

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9801 | 3.9912704 | 9834 | 3.9927302 | 9867 | 3.9941851 |
| 9802 | 3.9913147 | 9835 | 3.9927744 | 9868 | 3.9942291 |
| 9803 | 3.9913590 | 9836 | 3.9928185 | 9869 | 3.9942731 |
| 9804 | 3.9914033 | 9837 | 3.9928627 | 9870 | 3.9943172 |
| 9805 | 3.9914476 | 9838 | 3.9929068 | 9871 | 3.9943612 |
| 9806 | 3.9914919 | 9839 | 3.9929510 | 9872 | 3.9944051 |
| 9807 | 3.9915362 | 9840 | 3.9929951 | 9873 | 3.9944491 |
| 9808 | 3.9915805 | 9841 | 3.9930392 | 9874 | 3.9944931 |
| 9809 | 3.9916247 | 9842 | 3.9930834 | 9875 | 3.9945371 |
| 9810 | 3.9916690 | 9843 | 3.9931275 | 9876 | 3.9945811 |
| 9811 | 3.9917133 | 9844 | 3.9931716 | 9877 | 3.9946251 |
| 9812 | 3.9917575 | 9845 | 3.9932157 | 9878 | 3.9946690 |
| 9813 | 3.9918018 | 9846 | 3.9932598 | 9879 | 3.9947130 |
| 9814 | 3.9918461 | 9847 | 3.9933039 | 9880 | 3.9947569 |
| 9815 | 3.9918903 | 9848 | 3.9933480 | 9881 | 3.9948009 |
| 9816 | 3.9919345 | 9849 | 3.9933921 | 9882 | 3.9948448 |
| 9817 | 3.9919788 | 9850 | 3.9934362 | 9883 | 3.9948888 |
| 9818 | 3.9920230 | 9851 | 3.9934803 | 9884 | 3.9949327 |
| 9819 | 3.9920673 | 9852 | 3.9935244 | 9885 | 3.9949767 |
| 9820 | 3.9921115 | 9853 | 3.9935685 | 9886 | 3.9950206 |
| 9821 | 3.9921557 | 9854 | 3.9936126 | 9887 | 3.9950645 |
| 9822 | 3.9921999 | 9855 | 3.9936566 | 9888 | 3.9951085 |
| 9823 | 3.9922441 | 9856 | 3.9937007 | 9889 | 3.9951524 |
| 9824 | 3.9922884 | 9857 | 3.9937448 | 9890 | 3.9951963 |
| 9825 | 3.9923326 | 9858 | 3.9937888 | 9891 | 3.9952402 |
| 9826 | 3.9923768 | 9859 | 3.9938329 | 9892 | 3.9952841 |
| 9827 | 3.9924210 | 9860 | 3.9938769 | 9893 | 3.9953280 |
| 9828 | 3.9924651 | 9861 | 3.9939210 | 9894 | 3.9953719 |
| 9829 | 3.9925093 | 9862 | 3.9939650 | 9895 | 3.9954158 |
| 9830 | 3.9925535 | 9863 | 3.9940090 | 9896 | 3.9954597 |
| 9831 | 3.9925977 | 9864 | 3.9940531 | 9897 | 3.9955036 |
| 9832 | 3.9926419 | 9865 | 3.9940971 | 9898 | 3.9955474 |
| 9833 | 3.9926860 | 9866 | 3.9941411 | 9899 | 3.9955913 |
| 9834 | 3.9927302 | 9867 | 3.9941851 | 9900 | 3.9956352 |

N. 191.

N

2900



9900

| N.   | Logarith. | N.   | Logarith. | N.   | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9901 | 3.9956791 | 9934 | 3.9971242 | 9967 | 3.9985645 |
| 9902 | 3.9957229 | 9935 | 3.9971679 | 9968 | 3.9986080 |
| 9903 | 3.9957668 | 9936 | 3.9972116 | 9969 | 3.9986516 |
| 9904 | 3.9958106 | 9937 | 3.9972553 | 9970 | 3.9986952 |
| 9905 | 3.9958545 | 9938 | 3.9972990 | 9971 | 3.9987387 |
| 9906 | 3.9958983 | 9939 | 3.9973427 | 9972 | 3.9987823 |
| 9907 | 3.9959422 | 9940 | 3.9973864 | 9973 | 3.9988258 |
| 9908 | 3.9959860 | 9941 | 3.9974301 | 9974 | 3.9988694 |
| 9909 | 3.9960298 | 9942 | 3.9974738 | 9975 | 3.9989129 |
| 9910 | 3.9960737 | 9943 | 3.9975174 | 9976 | 3.9989564 |
| 9911 | 3.9961175 | 9944 | 3.9975611 | 9977 | 3.9990000 |
| 9912 | 3.9961613 | 9945 | 3.9976048 | 9978 | 3.9990435 |
| 9913 | 3.9962051 | 9946 | 3.9976485 | 9979 | 3.9990870 |
| 9914 | 3.9962489 | 9947 | 3.9976921 | 9980 | 3.9991305 |
| 9915 | 3.9962927 | 9948 | 3.9977358 | 9981 | 3.9991741 |
| 9916 | 3.9963365 | 9949 | 3.9977794 | 9982 | 3.9992176 |
| 9917 | 3.9963803 | 9950 | 3.9978231 | 9983 | 3.9992611 |
| 9918 | 3.9964241 | 9951 | 3.9978667 | 9984 | 3.9993046 |
| 9919 | 3.9964679 | 9952 | 3.9979104 | 9985 | 3.9993481 |
| 9920 | 3.9965117 | 9953 | 3.9979540 | 9986 | 3.9993916 |
| 9921 | 3.9965554 | 9954 | 3.9979976 | 9987 | 3.9994350 |
| 9922 | 3.9965992 | 9955 | 3.9980413 | 9988 | 3.9994785 |
| 9923 | 3.9966430 | 9956 | 3.9980849 | 9989 | 3.9995220 |
| 9924 | 3.9966868 | 9957 | 3.9981285 | 9990 | 3.9995655 |
| 9925 | 3.9967305 | 9958 | 3.9981721 | 9991 | 3.9996090 |
| 9926 | 3.9967743 | 9959 | 3.9982157 | 9992 | 3.9996524 |
| 9927 | 3.9968180 | 9960 | 3.9982593 | 9993 | 3.9996959 |
| 9928 | 3.9968618 | 9961 | 3.9983029 | 9994 | 3.9997393 |
| 9929 | 3.9969055 | 9962 | 3.9983465 | 9995 | 3.9997828 |
| 9930 | 3.9969492 | 9963 | 3.9983901 | 9996 | 3.9998262 |
| 9931 | 3.9969930 | 9964 | 3.9984337 | 9997 | 3.9998697 |
| 9932 | 3.9970367 | 9965 | 3.9984773 | 9998 | 3.9999131 |
| 9933 | 3.9970804 | 9966 | 3.9985209 | 9999 | 3.9999566 |
| 9934 | 3.9971242 | 9967 | 3.9985645 | 1000 | 4.0000000 |

N. 192.



**TABULA**  
**NUMERORUM QUADRATORUM**  
**ET CUBICORUM AB 1. USQUE**  
**AD 10000.**



TABULA

MUSEORUM OTAVIANORUM  
ET CAESARIONUM AB A. URQUE

AD 1800.



| R. | Q.   | C.    | R. | Q.   | C.     |
|----|------|-------|----|------|--------|
| 1  | 1    | 1     | 36 | 1296 | 46656  |
| 2  | 4    | 8     | 37 | 1369 | 50653  |
| 3  | 9    | 27    | 38 | 1444 | 54872  |
| 4  | 16   | 64    | 39 | 1521 | 59319  |
| 5  | 25   | 125   | 40 | 1600 | 64000  |
| 6  | 36   | 216   | 41 | 1681 | 68921  |
| 7  | 49   | 343   | 42 | 1764 | 74088  |
| 8  | 64   | 512   | 43 | 1849 | 79507  |
| 9  | 81   | 729   | 44 | 1936 | 85184  |
| 10 | 100  | 1000  | 45 | 2025 | 91125  |
| 11 | 121  | 1331  | 46 | 2116 | 97336  |
| 12 | 144  | 1728  | 47 | 2209 | 103823 |
| 13 | 169  | 2197  | 48 | 2304 | 110592 |
| 14 | 196  | 2744  | 49 | 2401 | 117649 |
| 15 | 225  | 3375  | 50 | 2500 | 125000 |
| 16 | 256  | 4096  | 51 | 2601 | 132651 |
| 17 | 289  | 4913  | 52 | 2704 | 140608 |
| 18 | 324  | 5832  | 53 | 2809 | 148877 |
| 19 | 361  | 6859  | 54 | 2916 | 157464 |
| 20 | 400  | 8000  | 55 | 3025 | 166375 |
| 21 | 441  | 9261  | 56 | 3136 | 175616 |
| 22 | 484  | 10648 | 57 | 3249 | 185193 |
| 23 | 529  | 12167 | 58 | 3364 | 195112 |
| 24 | 576  | 13824 | 59 | 3481 | 205379 |
| 25 | 625  | 15625 | 60 | 3600 | 216000 |
| 26 | 676  | 17576 | 61 | 3721 | 226981 |
| 27 | 729  | 19683 | 62 | 3844 | 238328 |
| 28 | 784  | 21952 | 63 | 3969 | 250047 |
| 29 | 841  | 24389 | 64 | 4096 | 262144 |
| 30 | 900  | 27000 | 65 | 4225 | 274625 |
| 31 | 961  | 29791 | 66 | 4356 | 287496 |
| 32 | 1024 | 32768 | 67 | 4489 | 300763 |
| 33 | 1089 | 35937 | 68 | 4624 | 314432 |
| 34 | 1156 | 39304 | 69 | 4761 | 328509 |
| 35 | 1225 | 42875 | 70 | 4900 | 343000 |

N. 195.

N 3

32853  
35878 35878  
32853 32853



| R.  | Q.    | C.      | R.  | Q.    | C.      |
|-----|-------|---------|-----|-------|---------|
| 71  | 5041  | 357911  | 106 | 11236 | 1191016 |
| 72  | 5184  | 373248  | 107 | 11449 | 1225043 |
| 73  | 5329  | 389017  | 108 | 11664 | 1259712 |
| 74  | 5476  | 405224  | 109 | 11881 | 1295029 |
| 75  | 5625  | 421875  | 110 | 12100 | 1331000 |
| 76  | 5776  | 438976  | 111 | 12321 | 1367631 |
| 77  | 5929  | 456533  | 112 | 12544 | 1404928 |
| 78  | 6084  | 474552  | 113 | 12769 | 1442897 |
| 79  | 6241  | 493039  | 114 | 12996 | 1481544 |
| 80  | 6400  | 512000  | 115 | 13225 | 1520875 |
| 81  | 6561  | 531441  | 116 | 13456 | 1560896 |
| 82  | 6724  | 551368  | 117 | 13689 | 1601613 |
| 83  | 6889  | 571787  | 118 | 13924 | 1643032 |
| 84  | 7056  | 592704  | 119 | 14161 | 1685159 |
| 85  | 7225  | 614125  | 120 | 14400 | 1728000 |
| 86  | 7396  | 636056  | 121 | 14641 | 1771561 |
| 87  | 7569  | 658503  | 122 | 14884 | 1815848 |
| 88  | 7744  | 681472  | 123 | 15129 | 1860867 |
| 89  | 7921  | 704969  | 124 | 15376 | 1906624 |
| 90  | 8100  | 729000  | 125 | 15625 | 1953125 |
| 91  | 8281  | 753571  | 126 | 15876 | 2000376 |
| 92  | 8464  | 778688  | 127 | 16129 | 2048383 |
| 93  | 8649  | 804357  | 128 | 16384 | 2097152 |
| 94  | 8836  | 830584  | 129 | 16641 | 2146689 |
| 95  | 9025  | 857375  | 130 | 16900 | 2197000 |
| 96  | 9216  | 884736  | 131 | 17161 | 2248091 |
| 97  | 9409  | 912673  | 132 | 17424 | 2299968 |
| 98  | 9604  | 941192  | 133 | 17689 | 2352637 |
| 99  | 9801  | 970299  | 134 | 17956 | 2406104 |
| 100 | 10000 | 1000000 | 135 | 18225 | 2460375 |
| 101 | 10201 | 1030301 | 136 | 18496 | 2515456 |
| 102 | 10404 | 1061208 | 137 | 18769 | 2571353 |
| 103 | 10609 | 1092727 | 138 | 19044 | 2628072 |
| 104 | 10816 | 1124864 | 139 | 19321 | 2685619 |
| 105 | 11025 | 1157625 | 140 | 19600 | 2744000 |

Num. 196.



| R.  | Q.    | C.      | R.  | Q.    | C.      |
|-----|-------|---------|-----|-------|---------|
| I41 | 19881 | 2803221 | I76 | 30976 | 5451776 |
| I42 | 20164 | 2863288 | I77 | 31329 | 5545233 |
| I43 | 20449 | 2924207 | I78 | 31684 | 5639752 |
| I44 | 20736 | 2985984 | I79 | 32041 | 5735339 |
| I45 | 21025 | 3048625 | I80 | 32400 | 5832000 |
| I46 | 21316 | 3112136 | I81 | 32761 | 5929741 |
| I47 | 21609 | 3176523 | I82 | 33124 | 6028568 |
| I48 | 21904 | 3241792 | I83 | 33489 | 6128487 |
| I49 | 22201 | 3307949 | I84 | 33856 | 6229504 |
| I50 | 22500 | 3375000 | I85 | 34225 | 6331625 |
| I51 | 22801 | 3442951 | I86 | 34596 | 6434856 |
| I52 | 23104 | 3511808 | I87 | 34969 | 6539203 |
| I53 | 23409 | 3581577 | I88 | 35344 | 6644672 |
| I54 | 23716 | 3652264 | I89 | 35721 | 6751269 |
| I55 | 24025 | 3723875 | I90 | 36100 | 6859000 |
| I56 | 24336 | 3796416 | I91 | 36481 | 6967871 |
| I57 | 24649 | 3869893 | I92 | 36864 | 7077888 |
| I58 | 24964 | 3944312 | I93 | 37249 | 7189057 |
| I59 | 25281 | 4019679 | I94 | 37636 | 7301384 |
| I60 | 25600 | 4096000 | I95 | 38025 | 7414875 |
| I61 | 25921 | 4173281 | I96 | 38416 | 7529536 |
| I62 | 26244 | 4251528 | I97 | 38809 | 7645373 |
| I63 | 26569 | 4330747 | I98 | 39204 | 7762392 |
| I64 | 26896 | 4410944 | I99 | 39601 | 7880599 |
| I65 | 27225 | 4492125 | 200 | 40000 | 8000000 |
| I66 | 27556 | 4574296 | 201 | 40401 | 8120601 |
| I67 | 27889 | 4657463 | 202 | 40804 | 8242408 |
| I68 | 28224 | 4741632 | 203 | 41209 | 8365427 |
| I69 | 28561 | 4826809 | 204 | 41616 | 8489664 |
| I70 | 28900 | 4913000 | 205 | 42025 | 8615125 |
| I71 | 29241 | 5000211 | 206 | 42436 | 8741816 |
| I72 | 29584 | 5088448 | 207 | 42849 | 8869743 |
| I73 | 29929 | 5177717 | 208 | 43264 | 8998912 |
| I74 | 30276 | 5268024 | 209 | 43681 | 9129329 |
| I75 | 30625 | 5359375 | 210 | 44100 | 9261000 |



| R.  | Q.    | C.       | R.  | Q.    | C.       |
|-----|-------|----------|-----|-------|----------|
| 211 | 44521 | 9393931  | 246 | 60516 | 14886936 |
| 212 | 44944 | 9528128  | 247 | 61009 | 15069223 |
| 213 | 45369 | 9663597  | 248 | 61504 | 15252992 |
| 214 | 45796 | 9800344  | 249 | 62001 | 15438249 |
| 215 | 46225 | 9938375  | 250 | 62500 | 15625000 |
| 216 | 46656 | 10077696 | 251 | 63001 | 15813251 |
| 217 | 47089 | 10218313 | 252 | 63504 | 16003008 |
| 218 | 47524 | 10360232 | 253 | 64009 | 16194277 |
| 219 | 47961 | 10503459 | 254 | 64516 | 16387064 |
| 220 | 48400 | 10648000 | 255 | 65025 | 16581375 |
| 221 | 48841 | 10793861 | 256 | 65536 | 16777216 |
| 222 | 49284 | 10941048 | 257 | 66049 | 16974593 |
| 223 | 49729 | 11089567 | 258 | 66564 | 17173512 |
| 224 | 50176 | 11239424 | 259 | 67081 | 17373979 |
| 225 | 50625 | 11390625 | 260 | 67600 | 17576000 |
| 226 | 51076 | 11543176 | 261 | 68121 | 17779581 |
| 227 | 51529 | 11697083 | 262 | 68644 | 17984728 |
| 228 | 51984 | 11852352 | 263 | 69169 | 18191447 |
| 229 | 52441 | 12008989 | 264 | 69696 | 18399744 |
| 230 | 52900 | 12167000 | 265 | 70225 | 18609625 |
| 231 | 53361 | 12326391 | 266 | 70756 | 18821096 |
| 232 | 53824 | 12487168 | 267 | 71289 | 19034163 |
| 233 | 54289 | 12649337 | 268 | 71824 | 19248832 |
| 234 | 54756 | 12812904 | 269 | 72361 | 19465109 |
| 235 | 55225 | 12977875 | 270 | 72900 | 19683000 |
| 236 | 55696 | 13144256 | 271 | 73441 | 19902511 |
| 237 | 56169 | 13312053 | 272 | 73984 | 20123648 |
| 238 | 56644 | 13481272 | 273 | 74529 | 20346417 |
| 239 | 57121 | 13651919 | 274 | 75076 | 20570824 |
| 240 | 57600 | 13824000 | 275 | 75625 | 20796875 |
| 241 | 58081 | 13997521 | 276 | 76176 | 21024576 |
| 242 | 58564 | 14172488 | 277 | 76729 | 21253933 |
| 243 | 59049 | 14348907 | 278 | 77284 | 21484952 |
| 244 | 59536 | 14526784 | 279 | 77841 | 21717639 |
| 245 | 60025 | 14706125 | 280 | 78400 | 21952000 |



| R.  | Q.    | C.       | R.  | Q.     | C.       |
|-----|-------|----------|-----|--------|----------|
| 281 | 78961 | 22188041 | 316 | 99856  | 31554496 |
| 282 | 79524 | 22425768 | 317 | 100489 | 31855013 |
| 283 | 80089 | 22665187 | 318 | 101124 | 32157432 |
| 284 | 80656 | 22906304 | 319 | 101761 | 32461759 |
| 285 | 81225 | 23149125 | 320 | 102400 | 32768000 |
| 286 | 81796 | 23393656 | 321 | 103041 | 33076161 |
| 287 | 82369 | 23639903 | 322 | 103684 | 33386248 |
| 288 | 82944 | 23887872 | 323 | 104329 | 33698267 |
| 289 | 83521 | 24137569 | 324 | 104976 | 34012224 |
| 290 | 84100 | 24389000 | 325 | 105625 | 34328125 |
| 291 | 84681 | 24642171 | 326 | 106276 | 34645976 |
| 292 | 85264 | 24897088 | 327 | 106929 | 34965783 |
| 293 | 85849 | 25153757 | 328 | 107584 | 35287552 |
| 294 | 86436 | 25412184 | 329 | 108241 | 35611289 |
| 295 | 87025 | 25672375 | 330 | 108900 | 35937000 |
| 296 | 87616 | 25934336 | 331 | 109561 | 36264691 |
| 297 | 88209 | 26198073 | 332 | 110224 | 36594368 |
| 298 | 88804 | 26463592 | 333 | 110889 | 36926037 |
| 299 | 89401 | 26730899 | 334 | 111556 | 37259704 |
| 300 | 90000 | 27000000 | 335 | 112225 | 37595375 |
| 301 | 90601 | 27270901 | 336 | 112896 | 37933056 |
| 302 | 91204 | 27543608 | 337 | 113569 | 38272753 |
| 303 | 91809 | 27818127 | 338 | 114244 | 38614472 |
| 304 | 92416 | 28094464 | 339 | 114921 | 38958219 |
| 305 | 93025 | 28372625 | 340 | 115600 | 39304000 |
| 306 | 93636 | 28652616 | 341 | 116281 | 39651821 |
| 307 | 94249 | 28934443 | 342 | 116964 | 40001688 |
| 308 | 94864 | 29218112 | 343 | 117649 | 40353607 |
| 309 | 95481 | 29503629 | 344 | 118336 | 40707584 |
| 310 | 96100 | 29791000 | 345 | 119025 | 41063625 |
| 311 | 96721 | 30080231 | 346 | 119716 | 41421736 |
| 312 | 97344 | 30371328 | 347 | 120409 | 41781923 |
| 313 | 97969 | 30664297 | 348 | 121104 | 42144192 |
| 314 | 98596 | 30959144 | 349 | 121801 | 42508549 |
| 315 | 99225 | 31255875 | 350 | 122500 | 42875000 |



| R.  | Q.     | C.       | R.  | Q.     | C.       |
|-----|--------|----------|-----|--------|----------|
| 351 | 123201 | 43243551 | 386 | 148996 | 57512456 |
| 352 | 123904 | 43614208 | 387 | 149769 | 57960603 |
| 353 | 124609 | 43986977 | 388 | 150544 | 58411072 |
| 354 | 125316 | 44361864 | 389 | 151321 | 58863869 |
| 355 | 126025 | 44738875 | 390 | 152100 | 59319000 |
| 356 | 126736 | 45112016 | 391 | 152881 | 59776471 |
| 357 | 127449 | 45499293 | 392 | 153664 | 60236288 |
| 358 | 128164 | 45882712 | 393 | 154449 | 60698457 |
| 359 | 128881 | 46268279 | 394 | 155236 | 61162984 |
| 360 | 129600 | 46656000 | 395 | 156025 | 61629875 |
| 361 | 130321 | 47045881 | 396 | 156816 | 62099136 |
| 362 | 131044 | 47437928 | 397 | 157609 | 62570773 |
| 363 | 131769 | 47832147 | 398 | 158404 | 63044792 |
| 364 | 132496 | 48228544 | 399 | 159201 | 63521199 |
| 365 | 133225 | 48627125 | 400 | 160000 | 64000000 |
| 366 | 133956 | 49027896 | 401 | 160801 | 64481201 |
| 367 | 134689 | 49430863 | 402 | 161604 | 64964808 |
| 368 | 135424 | 49836032 | 403 | 162409 | 65450827 |
| 369 | 136161 | 50243409 | 404 | 163216 | 65939264 |
| 370 | 136900 | 50653000 | 405 | 164025 | 66430125 |
| 371 | 137641 | 51064811 | 406 | 164836 | 66923416 |
| 372 | 138384 | 51478848 | 407 | 165649 | 67419143 |
| 373 | 139129 | 51895117 | 408 | 166464 | 67917312 |
| 374 | 139876 | 52313624 | 409 | 167281 | 68417929 |
| 375 | 140625 | 52734375 | 410 | 168100 | 68921000 |
| 376 | 141376 | 53157376 | 411 | 168921 | 69426531 |
| 377 | 142129 | 53582633 | 412 | 169744 | 69934528 |
| 378 | 142884 | 54010152 | 413 | 170569 | 70444997 |
| 379 | 143641 | 54439939 | 414 | 171396 | 70957944 |
| 380 | 144400 | 54872000 | 415 | 172225 | 71473375 |
| 381 | 145161 | 55306341 | 416 | 173056 | 71991296 |
| 382 | 145924 | 55742968 | 417 | 173889 | 72511713 |
| 383 | 146689 | 56181887 | 418 | 174724 | 73034632 |
| 384 | 147456 | 56623104 | 419 | 175561 | 73560059 |
| 385 | 148225 | 57066625 | 420 | 176400 | 74088000 |

N. 200.



| R.  | Q.     | C.       | R.  | Q.     | C.        |
|-----|--------|----------|-----|--------|-----------|
| 421 | 177241 | 74618461 | 456 | 207936 | 94818816  |
| 422 | 178084 | 75151448 | 457 | 208849 | 95443923  |
| 423 | 178929 | 75686967 | 458 | 209764 | 96071912  |
| 424 | 179776 | 76225024 | 459 | 210681 | 96702579  |
| 425 | 180625 | 76765625 | 460 | 211600 | 97336000  |
| 426 | 181476 | 77308776 | 461 | 212521 | 97972181  |
| 427 | 182329 | 77854483 | 462 | 213444 | 98611128  |
| 428 | 183184 | 78402752 | 463 | 214369 | 99252847  |
| 429 | 184041 | 78953589 | 464 | 215296 | 99897344  |
| 430 | 184900 | 79507000 | 465 | 216225 | 100544625 |
| 431 | 185761 | 80062991 | 466 | 217156 | 101194696 |
| 432 | 186624 | 80621568 | 467 | 218089 | 101847563 |
| 433 | 187489 | 81182737 | 468 | 219024 | 102503232 |
| 434 | 188356 | 81746504 | 469 | 219961 | 103161709 |
| 435 | 189225 | 82312875 | 470 | 220900 | 103823000 |
| 436 | 190096 | 82881856 | 471 | 221841 | 104487111 |
| 437 | 190969 | 83453453 | 472 | 222784 | 105154048 |
| 438 | 191844 | 84027672 | 473 | 223729 | 105823817 |
| 439 | 192721 | 84604519 | 474 | 224676 | 106496424 |
| 440 | 193600 | 85184000 | 475 | 225625 | 107171875 |
| 441 | 194481 | 85766121 | 476 | 226576 | 107850176 |
| 442 | 195364 | 86350888 | 477 | 227529 | 108531333 |
| 443 | 196249 | 86938307 | 478 | 228484 | 109215352 |
| 444 | 197136 | 87528384 | 479 | 229441 | 109902239 |
| 445 | 198025 | 88121125 | 480 | 230400 | 110592000 |
| 446 | 198916 | 88716536 | 481 | 231361 | 111284641 |
| 447 | 199809 | 89314623 | 482 | 232324 | 111980168 |
| 448 | 200704 | 89915392 | 483 | 233289 | 112678587 |
| 449 | 201601 | 90518849 | 484 | 234256 | 113379904 |
| 450 | 202500 | 91125000 | 485 | 235225 | 114084125 |
| 451 | 203401 | 91733851 | 486 | 236196 | 114791256 |
| 452 | 204304 | 92345408 | 487 | 237169 | 115501303 |
| 453 | 205209 | 92959677 | 488 | 238144 | 116214272 |
| 454 | 206116 | 93576664 | 489 | 239121 | 116930169 |
| 455 | 207025 | 94196375 | 490 | 240100 | 117649000 |



| R.  | Q.     | C.        | R.  | Q.     | C.        |
|-----|--------|-----------|-----|--------|-----------|
| 491 | 241081 | 118370771 | 526 | 276676 | 145531576 |
| 492 | 242064 | 119095488 | 527 | 277729 | 146363183 |
| 493 | 243049 | 119823157 | 528 | 278784 | 147197952 |
| 494 | 244036 | 120553784 | 529 | 279841 | 148035889 |
| 495 | 245025 | 121287375 | 530 | 280900 | 148877000 |
| 496 | 246016 | 122023936 | 531 | 281961 | 149721291 |
| 497 | 247009 | 122763473 | 532 | 283024 | 150568768 |
| 498 | 248004 | 123505992 | 533 | 284089 | 151419437 |
| 499 | 249001 | 124251499 | 534 | 285156 | 152273304 |
| 500 | 250000 | 125000000 | 535 | 286225 | 153130375 |
| 501 | 251001 | 125751501 | 536 | 287296 | 153990656 |
| 502 | 252004 | 126506008 | 537 | 288369 | 154854153 |
| 503 | 253009 | 127263527 | 538 | 289444 | 155720872 |
| 504 | 254016 | 128024064 | 539 | 290521 | 156590819 |
| 505 | 255025 | 128787625 | 540 | 291600 | 157464000 |
| 506 | 256036 | 129554216 | 541 | 292681 | 158340421 |
| 507 | 257049 | 130323843 | 542 | 293764 | 159220088 |
| 508 | 258064 | 131096512 | 543 | 294849 | 160103007 |
| 509 | 259081 | 131872229 | 544 | 295936 | 160989184 |
| 510 | 260100 | 132651000 | 545 | 297025 | 161878625 |
| 511 | 261121 | 133432831 | 546 | 298116 | 162771336 |
| 512 | 262144 | 134217728 | 547 | 299209 | 163667323 |
| 513 | 263169 | 135005697 | 548 | 300304 | 164566592 |
| 514 | 264196 | 135796744 | 549 | 301401 | 165469149 |
| 515 | 265225 | 136590875 | 550 | 302500 | 166375000 |
| 516 | 266256 | 137388096 | 551 | 303601 | 167284151 |
| 517 | 267289 | 138188413 | 552 | 304704 | 168196608 |
| 518 | 268324 | 138991832 | 553 | 305809 | 169112377 |
| 519 | 269361 | 139798359 | 554 | 306916 | 170031464 |
| 520 | 270400 | 140608000 | 555 | 308025 | 170953875 |
| 521 | 271441 | 141420761 | 556 | 309136 | 171879616 |
| 522 | 272484 | 142236648 | 557 | 310249 | 172808693 |
| 523 | 273529 | 143055667 | 558 | 311364 | 173741112 |
| 524 | 274576 | 143877824 | 559 | 312481 | 174676879 |
| 525 | 275625 | 144703125 | 560 | 313600 | 175616000 |



| R.  | Q.     | C.        | R.  | Q.     | C.        |
|-----|--------|-----------|-----|--------|-----------|
| 561 | 314721 | 176558481 | 596 | 355216 | 211708736 |
| 562 | 315844 | 177504328 | 597 | 356409 | 212776173 |
| 563 | 316969 | 178453547 | 598 | 357604 | 213847192 |
| 564 | 318096 | 179406144 | 599 | 358801 | 214921799 |
| 565 | 319225 | 180362125 | 600 | 360000 | 216000000 |
| 566 | 320356 | 181321496 | 601 | 361201 | 217081801 |
| 567 | 321489 | 182284263 | 602 | 362404 | 218167208 |
| 568 | 322624 | 183250432 | 603 | 363609 | 219256227 |
| 569 | 323761 | 184220009 | 604 | 364816 | 220348864 |
| 570 | 324900 | 185193000 | 605 | 366025 | 221445125 |
| 571 | 326041 | 186169411 | 606 | 367236 | 222545016 |
| 572 | 327184 | 187149248 | 607 | 368449 | 223648543 |
| 573 | 328329 | 188132517 | 608 | 369664 | 224755712 |
| 574 | 329476 | 189119224 | 609 | 370881 | 225866529 |
| 575 | 330625 | 190109375 | 610 | 372100 | 226981000 |
| 576 | 331776 | 191102976 | 611 | 373321 | 228099131 |
| 577 | 332929 | 192100033 | 612 | 374544 | 229220928 |
| 578 | 334084 | 193100552 | 613 | 375769 | 230346397 |
| 579 | 335241 | 194104539 | 614 | 376996 | 231475544 |
| 580 | 336400 | 195112000 | 615 | 378225 | 232608375 |
| 581 | 337561 | 196122941 | 616 | 379456 | 233744896 |
| 582 | 338724 | 197137368 | 617 | 380689 | 234885113 |
| 583 | 339889 | 198155287 | 618 | 381924 | 236029032 |
| 584 | 341056 | 199176704 | 619 | 383161 | 237176659 |
| 585 | 342225 | 200201625 | 620 | 384400 | 238328000 |
| 586 | 343396 | 201230056 | 621 | 385641 | 239483061 |
| 587 | 344569 | 202262003 | 622 | 386884 | 240641848 |
| 588 | 345744 | 203297472 | 623 | 388129 | 241804367 |
| 589 | 346921 | 204336469 | 624 | 389376 | 242970624 |
| 590 | 348100 | 205379000 | 625 | 390625 | 244140625 |
| 591 | 349281 | 206425071 | 626 | 391876 | 245314376 |
| 592 | 350464 | 207474688 | 627 | 393129 | 246491883 |
| 593 | 351649 | 208527857 | 628 | 394384 | 247673152 |
| 594 | 352836 | 209584584 | 629 | 395641 | 248858189 |
| 595 | 354025 | 210644875 | 630 | 396900 | 250047000 |

N. 203.



| R.  | Q.     | C.        | R.  | Q.     | C.        |
|-----|--------|-----------|-----|--------|-----------|
| 631 | 398161 | 251239591 | 666 | 443556 | 295408296 |
| 632 | 399424 | 252435968 | 667 | 444889 | 296740963 |
| 633 | 400689 | 253636137 | 668 | 446224 | 298077632 |
| 634 | 401956 | 254840104 | 669 | 447561 | 299418309 |
| 635 | 403225 | 256047875 | 670 | 448900 | 300763000 |
| 636 | 404496 | 257259456 | 671 | 450241 | 302111711 |
| 637 | 405769 | 258474853 | 672 | 451584 | 303464448 |
| 638 | 407044 | 259694072 | 673 | 452929 | 304821217 |
| 639 | 408321 | 260917119 | 674 | 454276 | 306182024 |
| 640 | 409600 | 262144000 | 675 | 455625 | 307546871 |
| 641 | 410881 | 263374721 | 676 | 456976 | 308915776 |
| 642 | 412164 | 264609288 | 677 | 458329 | 310288733 |
| 643 | 413449 | 265847707 | 678 | 459684 | 311665752 |
| 644 | 414736 | 267089984 | 679 | 461041 | 313046839 |
| 645 | 416025 | 268336125 | 680 | 462400 | 314432000 |
| 646 | 417316 | 269586136 | 681 | 463761 | 315821241 |
| 647 | 418609 | 270840023 | 682 | 465124 | 317214568 |
| 648 | 419904 | 272097792 | 683 | 466489 | 318611987 |
| 649 | 421201 | 273359449 | 684 | 467856 | 320013504 |
| 650 | 422500 | 274625000 | 685 | 469225 | 321419125 |
| 651 | 423801 | 275894451 | 686 | 470596 | 322828856 |
| 652 | 425104 | 277167808 | 687 | 471969 | 324242703 |
| 653 | 426409 | 278445077 | 688 | 473344 | 325660672 |
| 654 | 427716 | 279726264 | 689 | 474721 | 327082769 |
| 655 | 429025 | 281011375 | 690 | 476100 | 328509000 |
| 656 | 430336 | 282300416 | 691 | 477481 | 329939371 |
| 657 | 431649 | 283593393 | 692 | 478864 | 331373888 |
| 658 | 432964 | 284890312 | 693 | 480249 | 332812557 |
| 659 | 434281 | 286191179 | 694 | 481636 | 334255384 |
| 660 | 435600 | 287496000 | 695 | 483025 | 335702375 |
| 661 | 436921 | 288804781 | 696 | 484416 | 337173536 |
| 662 | 438244 | 290117528 | 697 | 485809 | 338608873 |
| 663 | 439569 | 291434247 | 698 | 487204 | 340068392 |
| 664 | 440896 | 292754944 | 699 | 488601 | 341532099 |
| 665 | 442225 | 294079625 | 700 | 490000 | 343000000 |

N. 204.

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610

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| R.  | Q.     | C.        | R.  | Q.     | C.        |
|-----|--------|-----------|-----|--------|-----------|
| 701 | 491401 | 344472101 | 736 | 541696 | 398688256 |
| 702 | 492804 | 345948408 | 737 | 543169 | 400315553 |
| 703 | 494209 | 347428927 | 738 | 544644 | 401947272 |
| 704 | 495616 | 348913664 | 739 | 546121 | 403583419 |
| 705 | 497025 | 350402625 | 740 | 547600 | 405224000 |
| 706 | 498436 | 351895816 | 741 | 549081 | 406869021 |
| 707 | 499849 | 353393243 | 742 | 550564 | 408518488 |
| 708 | 501264 | 354894912 | 743 | 552049 | 410172407 |
| 709 | 502681 | 356400829 | 744 | 553536 | 411830784 |
| 710 | 504100 | 357911000 | 745 | 555025 | 413493625 |
| 711 | 505521 | 359425431 | 746 | 556516 | 415160936 |
| 712 | 506944 | 360944128 | 747 | 558009 | 416832723 |
| 713 | 508369 | 362467097 | 748 | 559504 | 418508992 |
| 714 | 509796 | 363994344 | 749 | 561001 | 420189749 |
| 715 | 511225 | 365525875 | 750 | 562500 | 421875000 |
| 716 | 512656 | 367061696 | 751 | 564001 | 423564751 |
| 717 | 514089 | 368601813 | 752 | 565504 | 425259008 |
| 718 | 515524 | 370146232 | 753 | 567009 | 426957777 |
| 719 | 516961 | 371694959 | 754 | 568516 | 428661064 |
| 720 | 518400 | 373248000 | 755 | 570025 | 430368875 |
| 721 | 519841 | 374805361 | 756 | 571536 | 432081216 |
| 722 | 521284 | 376367048 | 757 | 573049 | 433798093 |
| 723 | 522729 | 377933067 | 758 | 574564 | 435519512 |
| 724 | 524176 | 379503424 | 759 | 576081 | 437245479 |
| 725 | 525625 | 381078125 | 760 | 577600 | 438976000 |
| 726 | 527076 | 382657176 | 761 | 579121 | 440711081 |
| 727 | 528529 | 384240583 | 762 | 580644 | 442450728 |
| 728 | 529984 | 385828352 | 763 | 582169 | 444194947 |
| 729 | 531441 | 387420489 | 764 | 583696 | 445943744 |
| 730 | 532900 | 389017000 | 765 | 585225 | 447697125 |
| 731 | 534361 | 390617891 | 766 | 586756 | 449455096 |
| 732 | 535824 | 392223168 | 767 | 588289 | 451217663 |
| 733 | 537289 | 393833287 | 768 | 589824 | 452984832 |
| 734 | 538756 | 395446904 | 769 | 591361 | 454756609 |
| 735 | 540225 | 397065375 | 770 | 592900 | 456533000 |



| R.  | Q.     | C.        | R.  | Q.     | C.        |
|-----|--------|-----------|-----|--------|-----------|
| 771 | 594441 | 458314011 | 806 | 649636 | 523606616 |
| 772 | 595984 | 460099648 | 807 | 651249 | 525557943 |
| 773 | 597529 | 461889917 | 808 | 652864 | 527514112 |
| 774 | 599076 | 463684824 | 809 | 654481 | 529475129 |
| 775 | 600625 | 465484375 | 810 | 656100 | 531441000 |
| 776 | 602176 | 467288576 | 811 | 657721 | 533411731 |
| 777 | 603729 | 469097433 | 812 | 659344 | 535387328 |
| 778 | 605284 | 470910952 | 813 | 660969 | 537367797 |
| 779 | 606841 | 472729139 | 814 | 662596 | 539353144 |
| 780 | 608400 | 474552000 | 815 | 664225 | 541343375 |
| 781 | 609961 | 476379541 | 816 | 665856 | 543338496 |
| 782 | 611524 | 478211768 | 817 | 667489 | 545338513 |
| 783 | 613089 | 480048687 | 818 | 669124 | 547343432 |
| 784 | 614656 | 481890304 | 819 | 670761 | 549353259 |
| 785 | 616225 | 483736625 | 820 | 672400 | 551368000 |
| 786 | 617796 | 485587656 | 821 | 674041 | 553387661 |
| 787 | 619369 | 487443403 | 822 | 675684 | 555412248 |
| 788 | 620944 | 489303872 | 823 | 677329 | 557441767 |
| 789 | 622521 | 491169069 | 824 | 678976 | 559476224 |
| 790 | 624100 | 493039000 | 825 | 680625 | 561515625 |
| 791 | 625681 | 494913671 | 826 | 682276 | 563559976 |
| 792 | 627264 | 496793088 | 827 | 683929 | 565609283 |
| 793 | 628849 | 498677257 | 828 | 685584 | 567663552 |
| 794 | 630436 | 500566184 | 829 | 687241 | 569722789 |
| 795 | 632025 | 502459875 | 830 | 688900 | 571787000 |
| 796 | 633616 | 504358336 | 831 | 690561 | 573856191 |
| 797 | 635209 | 506261573 | 832 | 692224 | 575930368 |
| 798 | 636804 | 508169592 | 833 | 693889 | 578009537 |
| 799 | 638401 | 510082399 | 834 | 695556 | 580093704 |
| 800 | 640000 | 512000000 | 835 | 697225 | 582182875 |
| 801 | 641601 | 513922401 | 836 | 698896 | 584277056 |
| 802 | 643204 | 515849608 | 837 | 700569 | 586376253 |
| 803 | 644809 | 517781627 | 838 | 702244 | 588480472 |
| 804 | 646416 | 519718464 | 839 | 703921 | 590589719 |
| 805 | 648025 | 521660125 | 840 | 705600 | 592704000 |

N. 206.

8040  
8040880  
-X-  
8040880



| R.  | Q.     | C.        | R.  | Q.     | C.        |
|-----|--------|-----------|-----|--------|-----------|
| 841 | 707281 | 594823321 | 876 | 767376 | 672221376 |
| 842 | 708964 | 596947688 | 877 | 769129 | 674526133 |
| 843 | 710649 | 599077107 | 878 | 770884 | 676836152 |
| 844 | 712336 | 601211584 | 879 | 772641 | 679151439 |
| 845 | 714025 | 603351125 | 880 | 774400 | 681472000 |
| 846 | 715716 | 605495736 | 881 | 776161 | 683797841 |
| 847 | 717409 | 607645423 | 882 | 777924 | 686128968 |
| 848 | 719104 | 609800192 | 883 | 779689 | 688465387 |
| 849 | 720801 | 611960049 | 884 | 781456 | 690807104 |
| 850 | 722500 | 614125000 | 885 | 783225 | 693154125 |
| 851 | 724201 | 616295051 | 886 | 784996 | 695506456 |
| 852 | 725904 | 618470208 | 887 | 786769 | 697864103 |
| 853 | 727609 | 620650477 | 888 | 788544 | 700227072 |
| 854 | 729316 | 622835864 | 889 | 790321 | 702595369 |
| 855 | 731025 | 625026375 | 890 | 792100 | 704969000 |
| 856 | 732736 | 627222016 | 891 | 793881 | 707347871 |
| 857 | 734449 | 629422793 | 892 | 795664 | 709732288 |
| 858 | 736164 | 631628712 | 893 | 797449 | 712121957 |
| 859 | 737881 | 633839779 | 894 | 799236 | 714516984 |
| 860 | 739600 | 636056000 | 895 | 801025 | 716917375 |
| 861 | 741321 | 638277381 | 896 | 802816 | 719323136 |
| 862 | 743044 | 640503928 | 897 | 804609 | 721734273 |
| 863 | 744769 | 642735647 | 898 | 806404 | 724150792 |
| 864 | 746496 | 644972544 | 899 | 808201 | 726572699 |
| 865 | 748225 | 647214625 | 900 | 810000 | 729000000 |
| 866 | 749956 | 649461896 | 901 | 811801 | 731432701 |
| 867 | 751689 | 651714363 | 902 | 813604 | 733870808 |
| 868 | 753424 | 653972032 | 903 | 815409 | 736314327 |
| 869 | 755161 | 656234909 | 904 | 817216 | 738763264 |
| 870 | 756900 | 658503000 | 905 | 819025 | 741217625 |
| 871 | 758641 | 660776311 | 906 | 820836 | 743677416 |
| 872 | 760384 | 663054848 | 907 | 822649 | 746142643 |
| 873 | 762129 | 665338617 | 908 | 824464 | 748613312 |
| 874 | 763876 | 667627624 | 909 | 826281 | 751089429 |
| 875 | 765625 | 669921875 | 910 | 828100 | 753571000 |



| R.  | Q.     | C.        | R.  | Q.     | C.        |
|-----|--------|-----------|-----|--------|-----------|
| 911 | 829921 | 756058031 | 946 | 894916 | 846590536 |
| 912 | 831744 | 758550528 | 947 | 896809 | 849278123 |
| 913 | 833569 | 761048497 | 948 | 898704 | 851971392 |
| 914 | 835396 | 763551944 | 949 | 900601 | 854670349 |
| 915 | 837225 | 766060875 | 950 | 902500 | 857375000 |
| 916 | 839056 | 768575296 | 951 | 904401 | 860085351 |
| 917 | 840889 | 771095213 | 952 | 906304 | 862801408 |
| 918 | 842724 | 773620632 | 953 | 908209 | 865523177 |
| 919 | 844561 | 776151559 | 954 | 910116 | 868250664 |
| 920 | 846400 | 778688000 | 955 | 912025 | 870983875 |
| 921 | 848241 | 781229961 | 956 | 913936 | 873722816 |
| 922 | 850084 | 783777448 | 957 | 915849 | 876467493 |
| 923 | 851929 | 786330467 | 958 | 917764 | 879217912 |
| 924 | 853776 | 788889024 | 959 | 919681 | 881974079 |
| 925 | 855625 | 791453125 | 960 | 921600 | 884736000 |
| 926 | 857476 | 794022776 | 961 | 923521 | 887503681 |
| 927 | 859329 | 796597983 | 962 | 925444 | 890277128 |
| 928 | 861184 | 799178752 | 963 | 927369 | 893056347 |
| 929 | 863041 | 801765089 | 964 | 929296 | 895841344 |
| 930 | 864900 | 804357000 | 965 | 931225 | 898632125 |
| 931 | 866761 | 806954491 | 966 | 933156 | 901428696 |
| 932 | 868624 | 809557568 | 967 | 935089 | 904231063 |
| 933 | 870489 | 812166237 | 968 | 937024 | 907039232 |
| 934 | 872356 | 814780504 | 969 | 938961 | 909853209 |
| 935 | 874225 | 817400375 | 970 | 940900 | 912673000 |
| 936 | 876096 | 820025856 | 971 | 942841 | 915498611 |
| 937 | 877969 | 822656953 | 972 | 944784 | 918330048 |
| 938 | 879844 | 825293672 | 973 | 946729 | 921167317 |
| 939 | 881721 | 827936019 | 974 | 948676 | 924010424 |
| 940 | 883600 | 830584000 | 975 | 950625 | 926859375 |
| 941 | 885481 | 833237621 | 976 | 952576 | 929714176 |
| 942 | 887364 | 835896888 | 977 | 954529 | 932574833 |
| 943 | 889249 | 838561807 | 978 | 956484 | 935441352 |
| 944 | 891136 | 841232384 | 979 | 958441 | 938313739 |
| 945 | 893025 | 843908625 | 980 | 900400 | 941192000 |



| R.  | Q.     | C.        | R.   | Q.      | C.         |
|-----|--------|-----------|------|---------|------------|
| 981 | 962361 | 944076141 | 991  | 982081  | 973242271  |
| 982 | 964324 | 946966168 | 992  | 984064  | 976191488  |
| 983 | 966289 | 949862087 | 993  | 986049  | 979146657  |
| 984 | 968256 | 952763904 | 994  | 988036  | 982107784  |
| 985 | 970225 | 955671625 | 995  | 990025  | 985074875  |
| 986 | 972196 | 958585256 | 996  | 992016  | 988047936  |
| 987 | 974169 | 961504803 | 997  | 994009  | 991026973  |
| 988 | 976144 | 964430272 | 998  | 996004  | 994011992  |
| 989 | 978121 | 967361669 | 999  | 998001  | 997002999  |
| 990 | 980100 | 970299000 | 1000 | 1000000 | 1000000000 |

FINIS.

A. M. D. G.



1911



CANON  
**TRIANGULORUM**  
CONTINENS SINUS ET TAN-  
GENTES AD SINGULA MI-  
NUTA PRIMA.



| Minut. | 0. Grad. |        | Minut. | 89. Grad. |            |
|--------|----------|--------|--------|-----------|------------|
|        | Sinus.   | Tang.  |        | Sinus.    | Tang.      |
| 0      | 0        | 0      | 60     | 100000000 | Infinir.   |
| 1      | 29.09    | 29.09  | 59     | 99999.99  | 343774667. |
| 2      | 58.18    | 58.18  | 58     | 99999.98  | 171887319. |
| 3      | 87.27    | 87.27  | 57     | 99999.96  | 114591530. |
| 4      | 116.36   | 116.36 | 56     | 99999.93  | 85943630.  |
| 5      | 145.44   | 145.44 | 55     | 99999.89  | 68754887.  |
| 6      | 174.53   | 174.53 | 54     | 99999.85  | 57295721.  |
| 7      | 203.62   | 203.62 | 53     | 99999.79  | 49110600.  |
| 8      | 232.71   | 232.71 | 52     | 99999.73  | 42971757.  |
| 9      | 261.80   | 261.80 | 51     | 99999.66  | 38197099.  |
| 10     | 290.89   | 290.89 | 50     | 99999.58  | 34377371.  |
| 11     | 319.98   | 319.98 | 49     | 99999.49  | 31252137.  |
| 12     | 349.06   | 349.07 | 48     | 99999.39  | 28647773.  |
| 13     | 378.15   | 378.16 | 47     | 99999.28  | 26444080.  |
| 14     | 407.24   | 407.25 | 46     | 99999.17  | 24555198.  |
| 15     | 436.33   | 436.33 | 45     | 99999.05  | 22918166.  |
| 16     | 465.42   | 465.42 | 44     | 99998.92  | 21485762.  |
| 17     | 494.51   | 494.51 | 43     | 99998.78  | 20221875.  |
| 18     | 523.60   | 523.60 | 42     | 99998.63  | 19098419.  |
| 19     | 552.68   | 552.69 | 41     | 99998.47  | 18093220.  |
| 20     | 581.77   | 581.78 | 40     | 99998.31  | 17188540.  |
| 21     | 610.86   | 610.87 | 39     | 99998.13  | 16370019.  |
| 22     | 639.95   | 639.96 | 38     | 99997.95  | 15625908.  |
| 23     | 669.04   | 669.05 | 37     | 99997.76  | 14946502.  |
| 24     | 698.13   | 698.14 | 36     | 99997.56  | 14323712.  |
| 25     | 727.21   | 727.23 | 35     | 99997.36  | 13750745.  |
| 26     | 756.30   | 756.32 | 34     | 99997.14  | 13221851.  |
| 27     | 785.39   | 785.41 | 33     | 99996.92  | 12732134.  |
| 28     | 814.48   | 814.50 | 32     | 99996.68  | 12277396.  |
| 29     | 843.57   | 843.60 | 31     | 99996.44  | 11854018.  |
| 30     | 872.65   | 872.69 | 30     | 99996.19  | 11458865.  |



| Minut. | 0. Grad. |         | Minut. | 89. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 30     | 872.65   | 872.69  | 30     | 99996.19  | 11458865.0 |
| 31     | 901.74   | 901.68  | 29     | 99995.93  | 11089205.1 |
| 32     | 930.83   | 930.87  | 28     | 99995.66  | 10742648.4 |
| 33     | 959.92   | 959.96  | 27     | 99995.39  | 10417094.5 |
| 34     | 989.00   | 989.05  | 26     | 99995.11  | 10110690.2 |
| 35     | 1018.09  | 1018.14 | 25     | 99994.82  | 9821794.3  |
| 36     | 1047.18  | 1047.24 | 24     | 99994.52  | 9548947.5  |
| 37     | 1076.27  | 1076.33 | 23     | 99994.21  | 9290848.7  |
| 38     | 1105.35  | 1105.42 | 22     | 99993.89  | 9046333.6  |
| 39     | 1134.44  | 1134.51 | 21     | 99993.56  | 8814357.2  |
| 40     | 1163.53  | 1163.61 | 20     | 99993.23  | 8593979.1  |
| 41     | 1192.61  | 1192.70 | 19     | 99992.89  | 8384350.7  |
| 42     | 1221.70  | 1221.79 | 18     | 99992.54  | 8184704.1  |
| 43     | 1250.79  | 1250.88 | 17     | 99992.18  | 7994343.0  |
| 44     | 1279.87  | 1279.98 | 16     | 99991.81  | 7812634.2  |
| 45     | 1308.96  | 1309.07 | 15     | 99991.43  | 7639000.9  |
| 46     | 1338.05  | 1338.17 | 14     | 99991.04  | 7472916.5  |
| 47     | 1367.13  | 1367.26 | 13     | 99990.65  | 7313899.1  |
| 48     | 1396.22  | 1396.35 | 12     | 99990.25  | 7161507.0  |
| 49     | 1425.30  | 1425.45 | 11     | 99989.84  | 7015334.6  |
| 50     | 1454.39  | 1454.54 | 10     | 99989.42  | 6875008.7  |
| 51     | 1483.48  | 1483.64 | 9      | 99988.99  | 6740185.4  |
| 52     | 1512.56  | 1512.73 | 8      | 99988.55  | 6610547.3  |
| 53     | 1541.65  | 1541.83 | 7      | 99988.11  | 6485800.8  |
| 54     | 1570.73  | 1570.93 | 6      | 99987.66  | 6365674.1  |
| 55     | 1599.82  | 1600.02 | 5      | 99987.20  | 6249915.4  |
| 56     | 1628.90  | 1629.12 | 4      | 99986.73  | 6138290.5  |
| 57     | 1657.99  | 1658.21 | 3      | 99986.25  | 6030582.0  |
| 58     | 1687.07  | 1687.31 | 2      | 99985.76  | 5926587.2  |
| 59     | 1716.16  | 1716.41 | 1      | 99985.27  | 5826117.4  |
| 60     | 1745.25  | 1745.51 | 0      | 99984.77  | 5728996.2  |



| Minut. | 1. Grad. |         | Minut. | 88. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 0      | 1745.24  | 1745.51 | 60     | 99984.77  | 5728996.16 |
| 1      | 1774.32  | 1774.60 | 59     | 99984.26  | 5635058.96 |
| 2      | 1803.41  | 1803.70 | 58     | 99983.74  | 5544151.67 |
| 3      | 1832.49  | 1832.80 | 57     | 99983.21  | 5456130.03 |
| 4      | 1861.58  | 1861.90 | 56     | 99982.67  | 5370858.75 |
| 5      | 1890.66  | 1891.00 | 55     | 99982.12  | 5288210.91 |
| 6      | 1919.74  | 1920.10 | 54     | 99981.57  | 5208067.26 |
| 7      | 1948.83  | 1949.20 | 53     | 99981.01  | 5130315.66 |
| 8      | 1977.91  | 1978.30 | 52     | 99980.44  | 5054850.59 |
| 9      | 2006.99  | 2007.40 | 51     | 99979.86  | 4981572.64 |
| 10     | 2036.08  | 2036.50 | 50     | 99979.27  | 4910388.06 |
| 11     | 2065.16  | 2065.60 | 49     | 99978.67  | 4841208.41 |
| 12     | 2094.24  | 2094.70 | 48     | 99978.06  | 4773950.14 |
| 13     | 2123.32  | 2123.80 | 47     | 99977.45  | 4708534.30 |
| 14     | 2152.41  | 2152.91 | 46     | 99976.83  | 4644886.20 |
| 15     | 2181.49  | 2182.01 | 45     | 99976.20  | 4582935.12 |
| 16     | 2210.57  | 2211.11 | 44     | 99975.56  | 4522614.07 |
| 17     | 2239.65  | 2240.21 | 43     | 99974.91  | 4463859.56 |
| 18     | 2268.73  | 2269.32 | 42     | 99974.25  | 4406611.32 |
| 19     | 2297.81  | 2298.42 | 41     | 99973.59  | 4350812.16 |
| 20     | 2326.90  | 2327.53 | 40     | 99972.92  | 4296407.73 |
| 21     | 2355.98  | 2356.63 | 39     | 99972.24  | 4243346.39 |
| 22     | 2385.06  | 2385.74 | 38     | 99971.55  | 4191578.99 |
| 23     | 2414.14  | 2414.84 | 37     | 99970.85  | 4141058.76 |
| 24     | 2443.22  | 2443.95 | 36     | 99970.14  | 4091741.16 |
| 25     | 2472.30  | 2473.05 | 35     | 99969.43  | 4043583.75 |
| 26     | 2501.38  | 2502.16 | 34     | 99968.71  | 3996546.05 |
| 27     | 2530.46  | 2531.27 | 33     | 99967.98  | 3950589.46 |
| 28     | 2559.54  | 2560.38 | 32     | 99967.24  | 3905677.11 |
| 29     | 2588.62  | 2589.48 | 31     | 99966.49  | 3861773.81 |
| 30     | 2617.69  | 2618.59 | 30     | 99965.73  | 3818845.93 |



| Minut. | I. Grad. |         | Minut. | 88. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 30     | 2617.69  | 2618.59 | 30     | 99965.73  | 3818845.93 |
| 31     | 2646.77  | 2647.70 | 29     | 99964.96  | 3776861.30 |
| 32     | 2675.85  | 2676.81 | 28     | 99964.19  | 3735789.17 |
| 33     | 2704.93  | 2705.92 | 27     | 99963.41  | 3695600.11 |
| 34     | 2734.01  | 2735.03 | 26     | 99962.62  | 3656265.92 |
| 35     | 2763.09  | 2764.14 | 25     | 99961.82  | 3617759.62 |
| 36     | 2792.16  | 2793.25 | 24     | 99961.01  | 3580055.33 |
| 37     | 2821.24  | 2822.36 | 23     | 99960.19  | 3543128.25 |
| 38     | 2850.32  | 2851.48 | 22     | 99959.36  | 3506954.58 |
| 39     | 2879.40  | 2880.59 | 21     | 99958.53  | 3471511.50 |
| 40     | 2908.47  | 2909.70 | 20     | 99957.69  | 3436777.09 |
| 41     | 2937.55  | 2938.82 | 19     | 99956.84  | 3402730.29 |
| 42     | 2966.62  | 2967.93 | 18     | 99955.98  | 3369350.89 |
| 43     | 2995.70  | 2997.05 | 17     | 99955.11  | 3336619.45 |
| 44     | 3024.78  | 3026.16 | 16     | 99954.24  | 3304517.27 |
| 45     | 3053.85  | 3055.28 | 15     | 99953.36  | 3273026.37 |
| 46     | 3082.93  | 3084.39 | 14     | 99952.47  | 3242129.46 |
| 47     | 3112.00  | 3113.51 | 13     | 99951.57  | 3211809.88 |
| 48     | 3141.08  | 3142.63 | 12     | 99950.66  | 3182051.60 |
| 49     | 3170.15  | 3171.74 | 11     | 99949.74  | 3152839.16 |
| 50     | 3199.22  | 3200.86 | 10     | 99948.81  | 3124157.67 |
| 51     | 3228.30  | 3229.98 | 9      | 99947.88  | 3095992.80 |
| 52     | 3257.37  | 3259.10 | 8      | 99946.94  | 3068330.70 |
| 53     | 3286.44  | 3288.22 | 7      | 99945.99  | 3041158.02 |
| 54     | 3315.52  | 3317.34 | 6      | 99945.03  | 3014461.89 |
| 55     | 3344.59  | 3346.46 | 5      | 99944.06  | 2988229.86 |
| 56     | 3373.66  | 3375.58 | 4      | 99943.08  | 2962449.95 |
| 57     | 3402.73  | 3404.71 | 3      | 99942.09  | 2937110.55 |
| 58     | 3431.81  | 3433.83 | 2      | 99941.09  | 2912200.47 |
| 59     | 3460.88  | 3462.95 | 1      | 99940.09  | 2887708.88 |
| 60     | 3489.95  | 3492.08 | 0      | 99939.08  | 2863625.33 |



| Minut. | 2. Grad. |         | Minut. | 87. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 0      | 3489.95  | 3492.08 | 60     | 99939.08  | 2863625.33 |
| 1      | 3519.02  | 3521.20 | 59     | 99938.06  | 2839939.69 |
| 2      | 3548.09  | 3550.33 | 58     | 99937.03  | 2816642.18 |
| 3      | 3577.16  | 3579.45 | 57     | 99935.99  | 2793723.33 |
| 4      | 3606.23  | 3608.58 | 56     | 99934.95  | 2771173.99 |
| 5      | 3635.30  | 3637.71 | 55     | 99933.90  | 2748985.28 |
| 6      | 3664.37  | 3666.83 | 54     | 99932.84  | 2727148.61 |
| 7      | 3693.44  | 3695.96 | 53     | 99931.77  | 2705655.68 |
| 8      | 3722.51  | 3725.09 | 52     | 99930.69  | 2684498.43 |
| 9      | 3751.58  | 3754.22 | 51     | 99929.60  | 2663669.04 |
| 10     | 3780.65  | 3783.35 | 50     | 99928.51  | 2643159.96 |
| 11     | 3809.71  | 3812.48 | 49     | 99927.40  | 2622963.84 |
| 12     | 3838.78  | 3841.61 | 48     | 99926.29  | 2603073.58 |
| 13     | 3867.85  | 3870.74 | 47     | 99925.17  | 2583482.27 |
| 14     | 3896.91  | 3899.88 | 46     | 99924.04  | 2564183.23 |
| 15     | 3925.98  | 3929.01 | 45     | 99922.90  | 2545169.96 |
| 16     | 3955.05  | 3958.14 | 44     | 99921.75  | 2526436.15 |
| 17     | 3984.11  | 3987.28 | 43     | 99920.60  | 2507975.68 |
| 18     | 4013.18  | 4016.41 | 42     | 99919.44  | 2489782.62 |
| 19     | 4042.24  | 4045.55 | 41     | 99918.27  | 2471851.19 |
| 20     | 4071.31  | 4074.69 | 40     | 99917.09  | 2454175.78 |
| 21     | 4100.37  | 4103.83 | 39     | 99915.90  | 2436750.95 |
| 22     | 4129.44  | 4132.96 | 38     | 99914.70  | 2419571.40 |
| 23     | 4158.50  | 4162.10 | 37     | 99913.49  | 2402631.99 |
| 24     | 4187.57  | 4191.24 | 36     | 99912.28  | 2385927.72 |
| 25     | 4216.63  | 4220.38 | 35     | 99911.06  | 2369453.72 |
| 26     | 4245.69  | 4249.52 | 34     | 99909.83  | 2353205.25 |
| 27     | 4274.75  | 4278.66 | 33     | 99908.59  | 2337177.72 |
| 28     | 4303.82  | 4307.81 | 32     | 99907.34  | 2321366.65 |
| 29     | 4332.88  | 4336.95 | 31     | 99906.08  | 2305767.67 |
| 30     | 4361.94  | 4366.09 | 30     | 99904.82  | 2290376.55 |



| Minut. | 2. Grad. |         | Minut. | 87. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 30     | 4361.94  | 4366.09 | 30     | 99904.82  | 2290376.55 |
| 31     | 4391.00  | 4395.24 | 29     | 99903.55  | 2275189.16 |
| 32     | 4420.06  | 4424.38 | 28     | 99902.27  | 2260201.48 |
| 33     | 4449.12  | 4453.53 | 27     | 99900.98  | 2245409.59 |
| 34     | 4478.18  | 4482.68 | 26     | 99899.68  | 2230809.67 |
| 35     | 4507.24  | 4511.82 | 25     | 99898.37  | 2216398.02 |
| 36     | 4536.30  | 4540.97 | 24     | 99897.05  | 2202171.00 |
| 37     | 4565.36  | 4570.12 | 23     | 99895.73  | 2188125.10 |
| 38     | 4594.42  | 4599.27 | 22     | 99894.40  | 2174256.87 |
| 39     | 4623.47  | 4628.42 | 21     | 99893.06  | 2160562.96 |
| 40     | 4652.53  | 4657.57 | 20     | 99891.71  | 2147040.10 |
| 41     | 4681.59  | 4686.73 | 19     | 99890.35  | 2133685.11 |
| 42     | 4710.64  | 4715.88 | 18     | 99888.98  | 2120494.88 |
| 43     | 4739.70  | 4745.03 | 17     | 99887.61  | 2107466.37 |
| 44     | 4768.76  | 4774.19 | 16     | 99886.23  | 2094596.63 |
| 45     | 4797.81  | 4803.34 | 15     | 99884.84  | 2081882.76 |
| 46     | 4826.87  | 4832.50 | 14     | 99883.44  | 2069321.96 |
| 47     | 4855.92  | 4861.66 | 13     | 99882.03  | 2056911.47 |
| 48     | 4884.98  | 4890.82 | 12     | 99880.61  | 2044648.61 |
| 49     | 4914.03  | 4919.97 | 11     | 99879.18  | 2032530.75 |
| 50     | 4943.08  | 4949.13 | 10     | 99877.75  | 2020555.35 |
| 51     | 4972.14  | 4978.29 | 9      | 99876.31  | 2008719.89 |
| 52     | 5001.19  | 5007.46 | 8      | 99874.86  | 1997021.95 |
| 53     | 5030.24  | 5036.62 | 7      | 99873.40  | 1985459.12 |
| 54     | 5059.29  | 5065.78 | 6      | 99871.93  | 1974029.10 |
| 55     | 5088.35  | 5094.95 | 5      | 99870.45  | 1962729.59 |
| 56     | 5117.40  | 5124.11 | 4      | 99868.97  | 1951558.37 |
| 57     | 5146.45  | 5153.28 | 3      | 99867.48  | 1940513.27 |
| 58     | 5175.50  | 5182.44 | 2      | 99865.98  | 1929592.17 |
| 59     | 5204.55  | 5211.61 | 1      | 99864.47  | 1918792.98 |
| 60     | 5233.60  | 5240.78 | 0      | 99862.95  | 1908113.67 |



| Minut. | 3. Grad. |         | Minut. | 86. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 0      | 5233.60  | 5240.78 | 60     | 99862.95  | 1908113.67 |
| 1      | 5262.64  | 5269.95 | 59     | 99861.42  | 1897552.26 |
| 2      | 5291.69  | 5299.12 | 58     | 99859.89  | 1887106.80 |
| 3      | 5320.74  | 5328.29 | 57     | 99858.35  | 1876775.39 |
| 4      | 5349.79  | 5357.46 | 56     | 99856.80  | 1866556.18 |
| 5      | 5378.83  | 5386.63 | 55     | 99855.24  | 1856447.34 |
| 6      | 5407.88  | 5415.81 | 54     | 99853.67  | 1846447.09 |
| 7      | 5436.93  | 5444.98 | 53     | 99852.09  | 1836553.70 |
| 8      | 5465.97  | 5474.16 | 52     | 99850.50  | 1826765.44 |
| 9      | 5495.02  | 5503.33 | 51     | 99848.91  | 1817080.67 |
| 10     | 5524.06  | 5532.51 | 50     | 99847.31  | 1807497.74 |
| 11     | 5553.11  | 5561.69 | 49     | 99845.70  | 1798015.05 |
| 12     | 5582.15  | 5590.87 | 48     | 99844.08  | 1788631.04 |
| 13     | 5611.19  | 5620.05 | 47     | 99842.45  | 1779344.17 |
| 14     | 5640.24  | 5649.23 | 46     | 99840.81  | 1770152.94 |
| 15     | 5669.28  | 5678.41 | 45     | 99839.16  | 1761055.88 |
| 16     | 5698.32  | 5707.59 | 44     | 99837.51  | 1752051.55 |
| 17     | 5727.36  | 5736.78 | 43     | 99835.85  | 1743138.54 |
| 18     | 5756.40  | 5765.96 | 42     | 99834.18  | 1734315.46 |
| 19     | 5785.44  | 5795.15 | 41     | 99832.50  | 1725580.95 |
| 20     | 5814.48  | 5824.34 | 40     | 99830.81  | 1716933.69 |
| 21     | 5843.52  | 5853.52 | 39     | 99829.11  | 1708372.38 |
| 22     | 5872.56  | 5882.71 | 38     | 99827.41  | 1699895.74 |
| 23     | 5901.60  | 5911.90 | 37     | 99825.70  | 1691502.51 |
| 24     | 5930.64  | 5941.09 | 36     | 99823.98  | 1683191.48 |
| 25     | 5959.67  | 5970.29 | 35     | 99822.25  | 1674961.44 |
| 26     | 5988.71  | 5999.48 | 34     | 99820.51  | 1666811.20 |
| 27     | 6017.75  | 6028.67 | 33     | 99818.76  | 1658739.62 |
| 28     | 6046.78  | 6057.87 | 32     | 99817.01  | 1650745.55 |
| 29     | 6075.82  | 6087.06 | 31     | 99815.25  | 1642827.89 |
| 30     | 6104.85  | 6116.26 | 30     | 99813.48  | 1634985.55 |



| Minut. | 3. Grad. |         | Minut. | 86. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 30     | 6104.85  | 6116.26 | 30     | 99813.48  | 1634985.55 |
| 31     | 6133.89  | 6145.46 | 29     | 99811.70  | 1627217.44 |
| 32     | 6162.92  | 6174.66 | 28     | 99809.91  | 1619522.53 |
| 33     | 6191.96  | 6203.86 | 27     | 99808.11  | 1611899.79 |
| 34     | 6220.99  | 6233.06 | 26     | 99806.30  | 1604348.19 |
| 35     | 6250.02  | 6262.26 | 25     | 99804.49  | 1596866.74 |
| 36     | 6279.05  | 6291.47 | 24     | 99802.67  | 1589454.48 |
| 37     | 6308.08  | 6320.67 | 23     | 99800.84  | 1582110.45 |
| 38     | 6337.11  | 6349.88 | 22     | 99799.00  | 1574833.71 |
| 39     | 6366.14  | 6379.08 | 21     | 99797.15  | 1567623.33 |
| 40     | 6395.17  | 6408.29 | 20     | 99795.29  | 1560478.41 |
| 41     | 6424.20  | 6437.50 | 19     | 99793.43  | 1553398.06 |
| 42     | 6453.23  | 6466.71 | 18     | 99791.56  | 1546381.41 |
| 43     | 6482.26  | 6495.92 | 17     | 99789.68  | 1539427.60 |
| 44     | 6511.29  | 6525.13 | 16     | 99787.79  | 1532535.80 |
| 45     | 6540.31  | 6554.35 | 15     | 99785.89  | 1525705.17 |
| 46     | 6569.34  | 6583.56 | 14     | 99783.98  | 1518934.90 |
| 47     | 6598.36  | 6612.78 | 13     | 99782.06  | 1512224.20 |
| 48     | 6627.39  | 6641.99 | 12     | 99780.14  | 1505572.27 |
| 49     | 6656.41  | 6671.21 | 11     | 99778.21  | 1498978.36 |
| 50     | 6685.44  | 6700.43 | 10     | 99776.27  | 1492441.70 |
| 51     | 6714.46  | 6729.65 | 9      | 99774.32  | 1485961.55 |
| 52     | 6743.48  | 6758.87 | 8      | 99772.36  | 1479537.18 |
| 53     | 6772.51  | 6788.09 | 7      | 99770.39  | 1473167.87 |
| 54     | 6801.53  | 6817.32 | 6      | 99768.42  | 1466852.92 |
| 55     | 6830.55  | 6846.54 | 5      | 99766.44  | 1460591.63 |
| 56     | 6859.57  | 6875.77 | 4      | 99764.45  | 1454383.32 |
| 57     | 6888.59  | 6904.99 | 3      | 99762.45  | 1448227.32 |
| 58     | 6917.61  | 6934.22 | 2      | 99760.44  | 1442122.97 |
| 59     | 6946.63  | 6963.45 | 1      | 99758.42  | 1436069.61 |
| 60     | 6975.65  | 6992.68 | C      | 99756.40  | 1430066.63 |



| Minut. | 4. Grad. |         | Minut. | 85. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 0      | 6975.65  | 6992.68 | 60     | 99756.40  | 1430066.63 |
| 1      | 7004.66  | 7021.91 | 59     | 99754.37  | 1424113.37 |
| 2      | 7033.68  | 7051.15 | 58     | 99752.33  | 1418209.24 |
| 3      | 7062.70  | 6080.38 | 57     | 99750.28  | 1412353.63 |
| 4      | 7091.71  | 7109.61 | 56     | 99748.22  | 1406545.93 |
| 5      | 7120.73  | 7138.85 | 55     | 99746.15  | 1400785.56 |
| 6      | 7149.74  | 7168.09 | 54     | 99744.07  | 1395071.94 |
| 7      | 7178.76  | 7197.33 | 53     | 99741.99  | 1389404.51 |
| 8      | 7207.77  | 7226.57 | 52     | 99739.90  | 1383783.89 |
| 9      | 7236.78  | 7255.81 | 51     | 99737.80  | 1378205.98 |
| 10     | 7265.80  | 7285.05 | 50     | 99735.69  | 1372673.79 |
| 11     | 7294.81  | 7314.30 | 49     | 99733.57  | 1367185.60 |
| 12     | 7323.82  | 7343.54 | 48     | 99731.44  | 1361740.89 |
| 13     | 7352.83  | 7372.79 | 47     | 99729.31  | 1356339.15 |
| 14     | 7381.84  | 7402.03 | 46     | 99727.17  | 1350979.86 |
| 15     | 7410.85  | 7431.28 | 45     | 99725.02  | 1345662.53 |
| 16     | 7439.86  | 7460.53 | 44     | 99722.86  | 1340386.67 |
| 17     | 7468.87  | 7489.77 | 43     | 99720.69  | 1335151.79 |
| 18     | 7497.87  | 7519.04 | 42     | 99718.51  | 1329957.41 |
| 19     | 7526.88  | 7548.29 | 41     | 99716.32  | 1324803.07 |
| 20     | 7555.89  | 7577.55 | 40     | 99714.13  | 1319688.30 |
| 21     | 7584.89  | 7606.80 | 39     | 99711.93  | 1314612.66 |
| 22     | 7613.90  | 7636.06 | 38     | 99709.72  | 1309575.68 |
| 23     | 7642.90  | 7665.32 | 37     | 99707.50  | 1304576.93 |
| 24     | 7671.90  | 7694.58 | 36     | 99705.27  | 1299615.98 |
| 25     | 7700.91  | 772384. | 35     | 99703.03  | 1294692.40 |
| 26     | 7729.91  | 7753.11 | 34     | 99700.79  | 1289805.79 |
| 27     | 7758.91  | 7782.37 | 33     | 99698.54  | 1284955.66 |
| 28     | 7787.91  | 7811.64 | 32     | 99696.28  | 1280141.68 |
| 29     | 7816.91  | 7840.90 | 31     | 99694.01  | 1275363.41 |
| 30     | 7845.91  | 7870.17 | 30     | 99691.73  | 1270620.47 |

Num. 220.



| Minut. | 4. Grad. |         | Minut. | 85. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 30     | 7845.91  | 7870.17 | 30     | 99691.73  | 1270620.47 |
| 31     | 7874.91  | 7899.44 | 29     | 99689.44  | 1265912.46 |
| 32     | 7903.91  | 7928.71 | 28     | 99687.15  | 1261239.00 |
| 33     | 7932.90  | 7957.98 | 27     | 99684.85  | 1256599.71 |
| 34     | 7961.90  | 7987.26 | 26     | 99682.54  | 1251994.20 |
| 35     | 7990.90  | 8016.53 | 25     | 99680.22  | 1247422.12 |
| 36     | 8019.89  | 8045.81 | 24     | 99677.89  | 1242883.10 |
| 37     | 8048.89  | 8075.09 | 23     | 99675.55  | 1238376.79 |
| 38     | 8077.88  | 8104.37 | 22     | 99673.20  | 1233902.82 |
| 39     | 8106.87  | 8133.65 | 21     | 99670.85  | 1229460.85 |
| 40     | 8135.87  | 8162.93 | 20     | 99668.49  | 1225050.55 |
| 41     | 8164.86  | 8192.21 | 19     | 99666.12  | 1220671.56 |
| 42     | 8193.85  | 8221.50 | 18     | 99663.74  | 1216323.56 |
| 43     | 8222.84  | 8250.78 | 17     | 99661.35  | 1212006.22 |
| 44     | 8251.83  | 8280.07 | 16     | 99658.95  | 1207719.22 |
| 45     | 8280.82  | 8309.36 | 15     | 99656.55  | 1203462.23 |
| 46     | 8309.81  | 8338.65 | 14     | 99654.14  | 1199234.95 |
| 47     | 8338.80  | 8367.94 | 13     | 99651.72  | 1195037.05 |
| 48     | 8367.78  | 8397.23 | 12     | 99649.29  | 1190868.24 |
| 49     | 8396.77  | 8426.53 | 11     | 99646.85  | 1186728.21 |
| 50     | 8425.76  | 8455.83 | 10     | 99644.40  | 1182616.67 |
| 51     | 8454.74  | 8485.12 | 9      | 99641.94  | 1178533.31 |
| 52     | 8483.73  | 8514.42 | 8      | 99639.48  | 1174477.86 |
| 53     | 8512.71  | 8543.72 | 7      | 99637.01  | 1170450.03 |
| 54     | 8541.69  | 8573.02 | 6      | 99634.53  | 1166449.53 |
| 55     | 8570.67  | 8602.33 | 5      | 99632.04  | 1162476.08 |
| 56     | 8599.66  | 8631.63 | 4      | 99629.54  | 1158529.42 |
| 57     | 8628.64  | 8660.94 | 3      | 99627.03  | 1154609.27 |
| 58     | 8657.62  | 8690.25 | 2      | 99624.52  | 1150715.38 |
| 59     | 8686.60  | 8719.56 | 1      | 99622.00  | 1146847.43 |
| 60     | 8715.57  | 8748.87 | 0      | 99619.47  | 1143005.23 |



| Minut. | 5. Grad. |         | Minut. | 84. Grad. |            |
|--------|----------|---------|--------|-----------|------------|
|        | Sinus.   | Tang.   |        | Sinus.    | Tang.      |
| 0      | 8715.57  | 8714.87 | 60     | 99619.47  | 1143005.23 |
| 1      | 8744.55  | 8778.18 | 59     | 99616.93  | 1139188.49 |
| 2      | 8773.53  | 8807.49 | 58     | 99614.38  | 1135396.96 |
| 3      | 8802.51  | 8836.81 | 57     | 99611.82  | 1131630.40 |
| 4      | 8831.48  | 8866.12 | 56     | 99609.26  | 1127888.55 |
| 5      | 8860.46  | 8895.44 | 55     | 99606.69  | 1124171.17 |
| 6      | 8889.43  | 8924.76 | 54     | 99604.11  | 1120478.03 |
| 7      | 8918.40  | 8954.08 | 53     | 99601.52  | 1116808.88 |
| 8      | 8947.38  | 8983.41 | 52     | 99598.92  | 1113163.50 |
| 9      | 8976.35  | 9012.73 | 51     | 99596.31  | 1109541.64 |
| 10     | 9005.32  | 9042.06 | 50     | 99593.69  | 1105943.10 |
| 11     | 9034.29  | 9071.38 | 49     | 99591.07  | 1102367.63 |
| 12     | 9063.26  | 9100.71 | 48     | 99588.44  | 1098815.01 |
| 13     | 9092.23  | 9130.04 | 47     | 99585.80  | 1095285.04 |
| 14     | 9121.19  | 9159.38 | 46     | 99583.15  | 1091777.49 |
| 15     | 9150.16  | 9188.71 | 45     | 99580.49  | 1088292.14 |
| 16     | 9179.13  | 9218.04 | 44     | 99577.82  | 1084828.80 |
| 17     | 9208.09  | 9247.38 | 43     | 99575.15  | 1081387.24 |
| 18     | 9237.06  | 9276.72 | 42     | 99572.47  | 1077967.27 |
| 19     | 9266.02  | 9306.06 | 41     | 99569.78  | 1074568.68 |
| 20     | 9294.99  | 9335.40 | 40     | 99567.08  | 1071191.26 |
| 21     | 9323.95  | 9364.74 | 39     | 99564.37  | 1067834.84 |
| 22     | 9352.91  | 9394.09 | 38     | 99561.65  | 1064499.19 |
| 23     | 9381.87  | 9423.44 | 37     | 99558.92  | 1061184.14 |
| 24     | 9410.83  | 9452.78 | 36     | 99556.19  | 1057889.50 |
| 25     | 9439.79  | 9482.13 | 35     | 99553.45  | 1054615.07 |
| 26     | 9468.75  | 9511.48 | 34     | 99550.70  | 1051360.67 |
| 27     | 9497.71  | 9540.84 | 33     | 99547.94  | 1048126.11 |
| 28     | 9526.66  | 9570.19 | 32     | 99545.17  | 1044911.22 |
| 29     | 9555.62  | 9599.55 | 31     | 99542.40  | 1041715.81 |
| 30     | 9584.58  | 9628.90 | 30     | 99539.62  | 1038539.71 |



| Minut. | 5. Grad. |          | Minut. | 84. Grad. |            |
|--------|----------|----------|--------|-----------|------------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.      |
| 30     | 9584.58  | 9628.90  | 30     | 99539.62  | 1038539.71 |
| 31     | 9613.53  | 9658.26  | 29     | 99536.83  | 1036382.74 |
| 32     | 9642.48  | 9687.63  | 28     | 99534.03  | 1032244.73 |
| 33     | 9671.44  | 9716.99  | 27     | 99531.22  | 1029125.51 |
| 34     | 9700.39  | 9746.35  | 26     | 99528.40  | 1026024.90 |
| 35     | 9729.34  | 9775.72  | 25     | 99525.57  | 1022942.76 |
| 36     | 9758.29  | 9805.09  | 24     | 99522.74  | 1019878.90 |
| 37     | 9787.24  | 9834.46  | 23     | 99519.90  | 1016833.16 |
| 38     | 9816.19  | 9863.83  | 22     | 99517.05  | 1013805.39 |
| 39     | 9845.14  | 9893.20  | 21     | 99514.19  | 1010795.42 |
| 40     | 9874.08  | 9922.57  | 20     | 99511.32  | 1007803.11 |
| 41     | 9903.03  | 9951.95  | 19     | 99508.44  | 1004828.28 |
| 42     | 9931.97  | 9981.33  | 18     | 99505.55  | 1001870.80 |
| 43     | 9960.52  | 10010.71 | 17     | 99502.66  | 998930.50  |
| 44     | 9989.86  | 10040.09 | 16     | 99499.76  | 996007.24  |
| 45     | 10018.81 | 10069.47 | 15     | 99496.85  | 993100.88  |
| 46     | 10047.75 | 10098.85 | 14     | 99493.93  | 990211.25  |
| 47     | 10076.69 | 10128.24 | 13     | 99491.00  | 987338.23  |
| 48     | 10105.63 | 10157.63 | 12     | 99488.06  | 984481.66  |
| 49     | 10134.57 | 10187.02 | 11     | 99485.12  | 981641.40  |
| 50     | 10163.51 | 10216.41 | 10     | 99482.17  | 978817.32  |
| 51     | 10192.45 | 10245.80 | 9      | 99479.21  | 976009.27  |
| 52     | 10221.38 | 10275.20 | 8      | 99476.24  | 973217.13  |
| 53     | 10250.32 | 10304.60 | 7      | 99473.26  | 970440.75  |
| 54     | 10279.25 | 10334.00 | 6      | 99470.27  | 967680.00  |
| 55     | 10308.19 | 10363.40 | 5      | 99467.28  | 964934.75  |
| 56     | 10337.12 | 10392.80 | 4      | 99464.28  | 962204.86  |
| 57     | 10366.05 | 10422.20 | 3      | 99461.27  | 959490.22  |
| 58     | 10394.99 | 10451.60 | 2      | 99458.25  | 956790.68  |
| 59     | 10423.92 | 10481.01 | 1      | 99455.22  | 954106.13  |
| 60     | 10452.85 | 10510.42 | 0      | 99452.18  | 951436.45  |

N. 223.

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06.1:1

1:1'90'1:1

6.1:1.06.1:1



| Minut. | 6. Grad. |          | Minut. | 83. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 0      | 10452.85 | 10510.42 | 60     | 99452.18  | 951436.45 |
| 1      | 10481.78 | 10539.83 | 59     | 99449.14  | 948781.49 |
| 2      | 10510.70 | 10569.24 | 58     | 99446.09  | 946141.16 |
| 3      | 10539.63 | 10598.66 | 57     | 99443.03  | 943515.31 |
| 4      | 10568.56 | 10628.08 | 56     | 99439.96  | 940903.84 |
| 5      | 10597.48 | 10657.50 | 55     | 99436.88  | 938306.63 |
| 6      | 10626.41 | 10686.92 | 54     | 99433.79  | 935723.55 |
| 7      | 10655.33 | 10716.34 | 53     | 99430.69  | 933154.50 |
| 8      | 10684.25 | 10745.76 | 52     | 99427.59  | 930599.36 |
| 9      | 10713.18 | 10775.19 | 51     | 99424.48  | 928058.02 |
| 10     | 10742.10 | 10804.62 | 50     | 99421.36  | 925530.35 |
| 11     | 10771.02 | 10834.05 | 49     | 99418.23  | 923016.27 |
| 12     | 10799.94 | 10863.48 | 48     | 99415.09  | 920515.64 |
| 13     | 10828.85 | 10892.91 | 47     | 99411.94  | 918028.38 |
| 14     | 10857.77 | 10922.34 | 46     | 99408.79  | 915554.36 |
| 15     | 10886.69 | 10951.78 | 45     | 99405.63  | 913093.48 |
| 16     | 10915.60 | 10981.22 | 44     | 99402.46  | 910645.64 |
| 17     | 10944.52 | 11010.66 | 43     | 99399.28  | 908210.74 |
| 18     | 10973.43 | 11040.10 | 42     | 99396.09  | 905788.67 |
| 19     | 11002.34 | 11069.54 | 41     | 99392.89  | 903379.33 |
| 20     | 11031.26 | 11098.99 | 40     | 99389.69  | 900982.61 |
| 21     | 11060.17 | 11128.44 | 39     | 99386.48  | 898598.43 |
| 22     | 11089.08 | 11157.89 | 38     | 99383.26  | 896226.68 |
| 23     | 11117.99 | 11187.34 | 37     | 99380.03  | 893867.26 |
| 24     | 11146.89 | 11216.79 | 36     | 99376.79  | 891520.08 |
| 25     | 11175.80 | 11246.25 | 35     | 99373.54  | 889185.05 |
| 26     | 11204.71 | 11275.71 | 34     | 99370.28  | 886862.06 |
| 27     | 11233.61 | 11305.17 | 33     | 99367.02  | 884551.03 |
| 28     | 11262.52 | 11334.63 | 32     | 99363.75  | 882251.86 |
| 29     | 11291.42 | 11364.09 | 31     | 99360.47  | 879964.46 |
| 30     | 11320.32 | 11393.56 | 30     | 99357.18  | 877688.74 |



| Minut. | 6. Grad. |          | Minut. | 83. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 30     | 11320.32 | 11393.56 | 30     | 99357.18  | 877688.74 |
| 31     | 11349.22 | 11423.03 | 29     | 99353.88  | 875424.61 |
| 32     | 11378.12 | 11452.50 | 28     | 99350.58  | 873171.98 |
| 33     | 11407.02 | 11481.97 | 27     | 99347.27  | 870930.77 |
| 34     | 11435.92 | 11511.44 | 26     | 99343.95  | 868700.88 |
| 35     | 11464.82 | 11540.91 | 25     | 99340.62  | 866482.23 |
| 36     | 11493.71 | 11570.39 | 24     | 99337.28  | 864274.75 |
| 37     | 11522.61 | 11599.87 | 23     | 99333.93  | 862078.33 |
| 38     | 11551.51 | 11629.35 | 22     | 99330.57  | 859892.90 |
| 39     | 11580.40 | 11658.83 | 21     | 99327.20  | 857718.38 |
| 40     | 11609.29 | 11688.31 | 20     | 99323.83  | 855554.68 |
| 41     | 11638.18 | 11717.80 | 19     | 99320.45  | 853401.72 |
| 42     | 11667.07 | 11747.29 | 18     | 99317.06  | 851259.43 |
| 43     | 11695.96 | 11776.78 | 17     | 99313.66  | 849127.72 |
| 44     | 11724.85 | 11806.28 | 16     | 99310.25  | 847006.51 |
| 45     | 11753.74 | 11835.78 | 15     | 99306.84  | 844895.73 |
| 46     | 11782.63 | 11865.28 | 14     | 99303.42  | 842795.31 |
| 47     | 11811.51 | 11894.78 | 13     | 99299.99  | 840705.15 |
| 48     | 11840.40 | 11924.28 | 12     | 99296.55  | 838625.19 |
| 49     | 11869.28 | 11953.78 | 11     | 99293.10  | 836555.36 |
| 50     | 11898.16 | 11983.28 | 10     | 99289.64  | 834495.57 |
| 51     | 11927.04 | 12012.79 | 9      | 99286.17  | 832445.77 |
| 52     | 11955.93 | 12042.30 | 8      | 99282.70  | 830405.86 |
| 53     | 11984.81 | 12071.81 | 7      | 99279.22  | 828375.79 |
| 54     | 12013.68 | 12101.32 | 6      | 99275.73  | 826355.47 |
| 55     | 12042.56 | 12130.84 | 5      | 99272.23  | 824344.85 |
| 56     | 12071.44 | 12160.36 | 4      | 99268.72  | 822343.84 |
| 57     | 12100.31 | 12189.88 | 3      | 99265.21  | 820352.39 |
| 58     | 12129.19 | 12219.40 | 2      | 99261.69  | 818370.41 |
| 59     | 12158.06 | 12248.93 | 1      | 99258.16  | 816397.86 |
| 60     | 12186.93 | 12278.46 | c      | 99254.62  | 814434.64 |



| Minut. | 7. Grad. |          | Minut. | 82. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 0      | 12186.93 | 12278.46 | 60     | 99254.62  | 814434.64 |
| 1      | 12215.81 | 12307.99 | 59     | 99251.07  | 812480.71 |
| 2      | 12244.68 | 12337.52 | 58     | 99247.51  | 810535.99 |
| 3      | 12273.55 | 12367.05 | 57     | 99243.94  | 808600.42 |
| 4      | 12302.41 | 12396.58 | 56     | 99240.36  | 806673.94 |
| 5      | 12331.28 | 12426.12 | 55     | 99236.78  | 804756.47 |
| 6      | 12360.15 | 12455.66 | 54     | 99233.19  | 802847.96 |
| 7      | 12389.01 | 12485.20 | 53     | 99229.59  | 800948.35 |
| 8      | 12417.88 | 12514.74 | 52     | 99225.98  | 799057.56 |
| 9      | 12446.74 | 12544.29 | 51     | 99222.36  | 797175.55 |
| 10     | 12475.60 | 12573.84 | 50     | 99218.74  | 795302.24 |
| 11     | 12504.46 | 12603.39 | 49     | 99215.11  | 793437.58 |
| 12     | 12533.32 | 12632.94 | 48     | 99211.47  | 791581.51 |
| 13     | 12562.18 | 12662.49 | 47     | 99207.82  | 789733.96 |
| 14     | 12591.04 | 12692.05 | 46     | 99204.16  | 787894.89 |
| 15     | 12619.90 | 12721.61 | 45     | 99200.49  | 786064.23 |
| 16     | 12648.75 | 12751.17 | 44     | 99196.81  | 784241.91 |
| 17     | 12677.61 | 12780.73 | 43     | 99193.13  | 782427.90 |
| 18     | 12706.46 | 12810.29 | 42     | 99189.44  | 780622.12 |
| 19     | 12735.31 | 12839.86 | 41     | 99185.74  | 778824.53 |
| 20     | 12764.16 | 12869.43 | 40     | 99182.03  | 777035.06 |
| 21     | 12793.01 | 12899.00 | 39     | 99178.31  | 775253.66 |
| 22     | 12821.86 | 12928.57 | 38     | 99174.59  | 773480.28 |
| 23     | 12850.71 | 12958.15 | 37     | 99170.86  | 771714.86 |
| 24     | 12879.56 | 12987.73 | 36     | 99167.12  | 769957.35 |
| 25     | 12908.41 | 13017.31 | 35     | 99163.37  | 768207.69 |
| 26     | 12937.25 | 13046.89 | 34     | 99159.61  | 766465.84 |
| 27     | 12966.09 | 13076.48 | 33     | 99155.84  | 764731.74 |
| 28     | 12994.94 | 13106.07 | 32     | 99152.06  | 763005.33 |
| 29     | 13023.78 | 13135.66 | 31     | 99148.28  | 761286.57 |
| 30     | 13052.62 | 13165.25 | 30     | 99144.49  | 759575.41 |

N. 226.



| Minut. | 7. Grad. |          | Minut. | 82. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 30     | 13054.62 | 13165.25 | 30     | 99144.49  | 759575.41 |
| 31     | 13081.46 | 13194.84 | 29     | 99140.69  | 757871.79 |
| 32     | 13110.30 | 13224.44 | 28     | 99136.88  | 756175.67 |
| 33     | 13139.13 | 13254.04 | 27     | 99133.06  | 754486.99 |
| 34     | 13167.97 | 13283.64 | 26     | 99129.23  | 752805.71 |
| 35     | 13196.81 | 13313.24 | 25     | 99125.40  | 751131.77 |
| 36     | 13225.64 | 13342.85 | 24     | 99121.55  | 749465.14 |
| 37     | 13254.47 | 13372.46 | 23     | 99117.70  | 747805.76 |
| 38     | 13283.30 | 13402.07 | 22     | 99113.84  | 746153.57 |
| 39     | 13312.13 | 13431.68 | 21     | 99109.98  | 744508.55 |
| 40     | 13340.96 | 13461.29 | 20     | 99106.10  | 742870.64 |
| 41     | 13369.79 | 13490.91 | 19     | 99102.21  | 741239.78 |
| 42     | 13398.62 | 13520.53 | 18     | 99098.32  | 739615.95 |
| 43     | 13427.44 | 13550.15 | 17     | 99094.42  | 737999.09 |
| 44     | 13456.27 | 13579.77 | 16     | 99090.51  | 736389.16 |
| 45     | 13485.09 | 13609.40 | 15     | 99086.59  | 734786.10 |
| 46     | 13513.92 | 13639.03 | 14     | 99082.66  | 733189.89 |
| 47     | 13542.74 | 13668.66 | 13     | 99078.73  | 731600.47 |
| 48     | 13571.56 | 13698.29 | 12     | 99074.78  | 730017.80 |
| 49     | 13600.38 | 13727.93 | 11     | 99070.83  | 728441.84 |
| 50     | 13629.19 | 13757.57 | 10     | 99066.87  | 726872.55 |
| 51     | 13658.01 | 13787.21 | 9      | 99062.90  | 725309.87 |
| 52     | 13686.83 | 13816.85 | 8      | 99058.93  | 723753.78 |
| 53     | 13715.64 | 13846.50 | 7      | 99054.94  | 722204.22 |
| 54     | 13744.45 | 13876.15 | 6      | 99050.95  | 720661.16 |
| 55     | 13773.27 | 13905.80 | 5      | 99046.94  | 719124.56 |
| 56     | 13802.08 | 13935.45 | 4      | 99042.93  | 717594.37 |
| 57     | 13830.89 | 13965.10 | 3      | 99038.91  | 716070.56 |
| 58     | 13859.70 | 13994.76 | 2      | 99034.89  | 714553.08 |
| 59     | 13888.50 | 14024.42 | 1      | 99030.85  | 713041.90 |
| 60     | 13917.31 | 14054.08 | 0      | 99026.81  | 711536.97 |



| Minut. | 8. Grad. |          | Minut. | 81. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 0      | 13917.31 | 14054.08 | 60     | 99026.81  | 711536.97 |
| 1      | 13946.12 | 14083.74 | 59     | 99022.75  | 710038.26 |
| 2      | 13974.92 | 14113.41 | 58     | 99018.69  | 708545.73 |
| 3      | 14003.72 | 14143.08 | 57     | 99014.62  | 707059.34 |
| 4      | 14032.52 | 14172.75 | 56     | 99010.55  | 705579.05 |
| 5      | 14061.32 | 14202.43 | 55     | 99006.46  | 704104.82 |
| 6      | 14090.12 | 14232.11 | 54     | 99002.37  | 702636.62 |
| 7      | 14118.92 | 14261.79 | 53     | 98998.26  | 701174.41 |
| 8      | 14147.72 | 14291.47 | 52     | 98994.16  | 699718.06 |
| 9      | 14176.51 | 14321.15 | 51     | 98990.03  | 698267.81 |
| 10     | 14205.31 | 14350.84 | 50     | 98985.90  | 696823.35 |
| 11     | 14234.10 | 14380.53 | 49     | 98981.77  | 695384.73 |
| 12     | 14262.89 | 14410.22 | 48     | 98977.62  | 693951.92 |
| 13     | 14291.68 | 14439.91 | 47     | 98973.47  | 692524.89 |
| 14     | 14320.47 | 14469.61 | 46     | 98969.31  | 691103.59 |
| 15     | 14349.26 | 14499.31 | 45     | 98965.14  | 689687.99 |
| 16     | 14378.05 | 14529.01 | 44     | 98960.96  | 688278.07 |
| 17     | 14406.84 | 14558.71 | 43     | 98956.77  | 686873.78 |
| 18     | 14435.62 | 14588.42 | 42     | 98952.57  | 685475.08 |
| 19     | 14464.40 | 14618.13 | 41     | 98948.37  | 684081.96 |
| 20     | 14493.19 | 14647.84 | 40     | 98944.16  | 682694.37 |
| 21     | 14521.97 | 14677.55 | 39     | 98939.94  | 681312.27 |
| 22     | 14550.75 | 14707.27 | 38     | 98935.71  | 679935.65 |
| 23     | 14579.53 | 14736.99 | 37     | 98931.47  | 678564.46 |
| 24     | 14608.30 | 14766.71 | 36     | 98927.23  | 677198.67 |
| 25     | 14637.08 | 14796.44 | 35     | 98922.98  | 675838.26 |
| 26     | 14665.85 | 14826.17 | 34     | 98918.72  | 674483.18 |
| 27     | 14694.63 | 14855.90 | 33     | 98914.45  | 673133.41 |
| 28     | 14723.40 | 14885.63 | 32     | 98910.17  | 671788.91 |
| 29     | 14752.17 | 14915.36 | 31     | 98905.88  | 670449.66 |
| 30     | 14780.94 | 14945.10 | 30     | 98901.58  | 669115.62 |



| Minut. | 8. Grad. |          | Minut. | 81. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 30     | 14780.94 | 14945.10 | 30     | 98901.58  | 669115.62 |
| 31     | 14809.71 | 14974.84 | 29     | 98897.28  | 667786.77 |
| 32     | 14838.48 | 15004.58 | 28     | 98892.97  | 666463.07 |
| 33     | 14867.24 | 15034.33 | 27     | 98888.65  | 665144.49 |
| 34     | 14896.01 | 15064.08 | 26     | 98884.32  | 663831.00 |
| 35     | 14924.77 | 15093.83 | 25     | 98879.98  | 662522.58 |
| 36     | 14953.53 | 15123.58 | 24     | 98875.64  | 661219.19 |
| 37     | 14982.30 | 15153.33 | 23     | 98871.28  | 659920.80 |
| 38     | 15011.06 | 15183.09 | 22     | 98866.92  | 658627.39 |
| 39     | 15039.81 | 15212.85 | 21     | 98862.55  | 657338.92 |
| 40     | 15068.57 | 15242.62 | 20     | 98858.17  | 656055.38 |
| 41     | 15097.33 | 15272.38 | 19     | 98853.78  | 654776.72 |
| 42     | 15126.08 | 15302.15 | 18     | 98849.38  | 653502.93 |
| 43     | 15154.84 | 15331.92 | 17     | 98844.98  | 652233.96 |
| 44     | 15183.59 | 15361.89 | 16     | 98840.57  | 650969.81 |
| 45     | 15212.34 | 15391.47 | 15     | 98836.15  | 649710.43 |
| 46     | 15241.09 | 15421.25 | 14     | 98831.72  | 648455.81 |
| 47     | 15269.84 | 15451.03 | 13     | 98827.28  | 647205.91 |
| 48     | 15298.58 | 15480.82 | 12     | 98822.83  | 645960.70 |
| 49     | 15327.33 | 15510.61 | 11     | 98818.38  | 644720.17 |
| 50     | 15356.07 | 15540.40 | 10     | 98813.92  | 643484.28 |
| 51     | 15384.82 | 15570.19 | 9      | 98809.45  | 642253.01 |
| 52     | 15413.56 | 15599.98 | 8      | 98804.97  | 641026.33 |
| 53     | 15442.30 | 15629.78 | 7      | 98800.48  | 639804.22 |
| 54     | 15471.04 | 15659.58 | 6      | 98795.98  | 638586.65 |
| 55     | 15499.78 | 15689.39 | 5      | 98791.48  | 637373.59 |
| 56     | 15528.51 | 15719.19 | 4      | 98786.97  | 636165.02 |
| 57     | 15557.25 | 15749.00 | 3      | 98782.45  | 634960.92 |
| 58     | 15585.98 | 15778.81 | 2      | 98777.92  | 633761.26 |
| 59     | 15614.72 | 15808.63 | 1      | 98773.38  | 632566.01 |
| 60     | 15643.45 | 15838.44 | 0      | 98768.83  | 631375.15 |



| Minut. | 9. Grad. |          | Minut. | 80. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 0      | 15643.45 | 15838.44 | 60     | 98768.83  | 631375.15 |
| 1      | 15672.18 | 15868.26 | 59     | 98764.28  | 630188.66 |
| 2      | 15700.91 | 15898.08 | 58     | 98759.72  | 629006.51 |
| 3      | 15729.63 | 15927.91 | 57     | 98755.15  | 627828.68 |
| 4      | 15758.36 | 15957.74 | 56     | 98750.57  | 626655.14 |
| 5      | 15787.08 | 15987.57 | 55     | 98745.98  | 625485.88 |
| 6      | 15815.81 | 16017.40 | 54     | 98741.38  | 624320.86 |
| 7      | 15844.53 | 16047.24 | 53     | 98736.77  | 623160.07 |
| 8      | 15873.25 | 16077.08 | 52     | 98732.16  | 622003.47 |
| 9      | 15901.97 | 16106.92 | 51     | 98727.54  | 620851.06 |
| 10     | 15930.69 | 16136.77 | 50     | 98722.91  | 619702.79 |
| 11     | 15959.40 | 16166.62 | 49     | 98718.27  | 618558.67 |
| 12     | 15988.12 | 16196.47 | 48     | 98713.62  | 617418.65 |
| 13     | 16016.83 | 16226.32 | 47     | 98708.97  | 616282.72 |
| 14     | 16045.55 | 16256.17 | 46     | 98704.31  | 615150.85 |
| 15     | 16074.26 | 16286.03 | 45     | 98699.64  | 614023.03 |
| 16     | 16102.97 | 16315.89 | 44     | 98694.96  | 612899.23 |
| 17     | 16131.67 | 16345.76 | 43     | 98690.27  | 611779.43 |
| 18     | 16160.38 | 16375.63 | 42     | 98685.57  | 610663.60 |
| 19     | 16189.09 | 16405.50 | 41     | 98680.86  | 609551.74 |
| 20     | 16217.79 | 16435.37 | 40     | 98676.15  | 608443.81 |
| 21     | 16246.50 | 16465.25 | 39     | 98671.43  | 607339.79 |
| 22     | 16275.20 | 16495.13 | 38     | 98666.70  | 606239.67 |
| 23     | 16303.90 | 16525.01 | 37     | 98661.96  | 605143.43 |
| 24     | 16332.60 | 16554.89 | 36     | 98657.21  | 604051.03 |
| 25     | 16361.29 | 16584.78 | 35     | 98652.46  | 602962.47 |
| 26     | 16389.99 | 16614.67 | 34     | 98647.70  | 601877.72 |
| 27     | 16418.68 | 16644.56 | 33     | 98642.93  | 600796.76 |
| 28     | 16447.38 | 16674.46 | 32     | 98638.15  | 599719.57 |
| 29     | 16476.07 | 16704.36 | 31     | 98633.36  | 598646.14 |
| 30     | 16504.76 | 16734.26 | 30     | 98628.56  | 597576.44 |



| Minut. | 9. Grad. |          | Minut. | 80. Grad. |           |
|--------|----------|----------|--------|-----------|-----------|
|        | Sinus.   | Tang.    |        | Sinus.    | Tang.     |
| 30     | 16504.76 | 16734.26 | 30     | 98628.56  | 597576.44 |
| 31     | 16533.45 | 16764.16 | 29     | 98623.75  | 596510.45 |
| 32     | 16562.14 | 16794.07 | 28     | 98618.94  | 595448.15 |
| 33     | 16590.82 | 16823.98 | 27     | 98614.12  | 594389.52 |
| 34     | 16619.51 | 16853.89 | 26     | 98609.29  | 593334.55 |
| 35     | 16648.19 | 16883.81 | 25     | 98604.45  | 592283.22 |
| 36     | 16676.87 | 16913.73 | 24     | 98599.60  | 591235.50 |
| 37     | 16705.55 | 16943.65 | 23     | 98594.74  | 590191.38 |
| 38     | 16734.23 | 16973.58 | 22     | 98589.88  | 589150.84 |
| 39     | 16762.91 | 17003.51 | 21     | 98585.01  | 588113.86 |
| 40     | 16791.59 | 17033.44 | 20     | 98580.13  | 587080.42 |
| 41     | 16820.26 | 17063.37 | 19     | 98575.24  | 586050.51 |
| 42     | 16848.94 | 17093.31 | 18     | 98570.34  | 585024.10 |
| 43     | 16877.61 | 17123.25 | 17     | 98565.44  | 584001.17 |
| 44     | 16906.28 | 17153.19 | 16     | 98560.53  | 582981.72 |
| 45     | 16934.95 | 17183.14 | 15     | 98555.61  | 581965.72 |
| 46     | 16963.62 | 17213.09 | 14     | 99550.68  | 580953.15 |
| 47     | 16992.28 | 17243.04 | 13     | 98545.74  | 579944.00 |
| 48     | 17020.95 | 17273.00 | 12     | 98540.79  | 578938.25 |
| 49     | 17049.61 | 17302.96 | 11     | 98535.83  | 577935.88 |
| 50     | 17078.28 | 17332.92 | 10     | 98530.87  | 576936.88 |
| 51     | 17106.94 | 17362.88 | 9      | 98525.90  | 575941.22 |
| 52     | 17135.60 | 17392.85 | 8      | 98520.92  | 574948.89 |
| 53     | 17164.25 | 17422.82 | 7      | 98515.93  | 573959.88 |
| 54     | 17192.91 | 17452.79 | 6      | 98510.93  | 572974.16 |
| 55     | 17221.56 | 17482.77 | 5      | 98505.92  | 571991.73 |
| 56     | 17250.22 | 17512.75 | 4      | 98500.91  | 571012.56 |
| 57     | 17278.87 | 17542.73 | 3      | 98495.89  | 570036.63 |
| 58     | 17307.52 | 17572.72 | 2      | 98490.86  | 569063.94 |
| 59     | 17336.17 | 17602.71 | 1      | 98485.82  | 568094.46 |
| 60     | 17364.82 | 17632.70 | 0      | 98480.77  | 567128.18 |



| Minut. | 10. Grad. |          | Minut. | 72. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 17364.82  | 17632.70 | 60     | 98480.77  | 567128.18 |
| 1      | 17393.46  | 17662.69 | 59     | 98475.71  | 566165.09 |
| 2      | 17422.11  | 17692.69 | 58     | 98470.65  | 565205.16 |
| 3      | 17450.75  | 17722.69 | 57     | 98465.58  | 564248.38 |
| 4      | 17479.39  | 17752.69 | 56     | 98460.50  | 563294.74 |
| 5      | 17508.03  | 17782.70 | 55     | 98455.41  | 562344.21 |
| 6      | 17536.67  | 17812.71 | 54     | 98450.31  | 561396.80 |
| 7      | 17565.31  | 17842.72 | 53     | 98445.21  | 560452.47 |
| 8      | 17593.95  | 17872.74 | 52     | 98440.10  | 559511.21 |
| 9      | 17622.58  | 17902.76 | 51     | 98434.98  | 558573.02 |
| 10     | 17651.21  | 17932.78 | 50     | 98429.85  | 557637.86 |
| 11     | 17679.84  | 17962.81 | 49     | 98424.71  | 556705.74 |
| 12     | 17708.47  | 17992.84 | 48     | 98419.56  | 555776.63 |
| 13     | 17737.10  | 18022.87 | 47     | 68414.40  | 554850.52 |
| 14     | 17765.73  | 18052.91 | 46     | 98409.24  | 553927.40 |
| 15     | 17794.35  | 18082.95 | 45     | 98404.07  | 553007.24 |
| 16     | 17822.98  | 18112.99 | 44     | 98398.89  | 552090.05 |
| 17     | 17851.60  | 18143.03 | 43     | 98393.70  | 551175.79 |
| 18     | 17880.22  | 18173.08 | 42     | 98388.50  | 550264.46 |
| 19     | 17908.84  | 18203.13 | 41     | 98383.29  | 549356.04 |
| 20     | 17937.46  | 18233.18 | 40     | 98378.08  | 548450.52 |
| 21     | 17966.07  | 18263.24 | 39     | 98372.86  | 547547.88 |
| 22     | 17994.69  | 18293.30 | 38     | 98367.63  | 546648.12 |
| 23     | 18023.30  | 18323.36 | 37     | 98362.39  | 545751.21 |
| 24     | 18051.91  | 18353.43 | 36     | 98357.14  | 544857.15 |
| 25     | 18080.52  | 18383.50 | 35     | 98351.89  | 543965.92 |
| 26     | 18109.13  | 18413.57 | 34     | 98346.63  | 543077.50 |
| 27     | 18137.74  | 18443.65 | 33     | 98341.36  | 542191.88 |
| 28     | 18166.35  | 18473.73 | 32     | 98336.08  | 541309.06 |
| 29     | 18194.95  | 18503.81 | 31     | 98330.79  | 540429.01 |
| 30     | 18223.55  | 18533.90 | 30     | 98325.49  | 539551.72 |



| Minut. | 10. Grad. |          | Minut. | 79. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 18223.55  | 18533.90 | 30     | 98325.49  | 539551.72 |
| 31     | 18252.15  | 18563.99 | 29     | 98320.18  | 538677.18 |
| 32     | 18280.75  | 18594.08 | 28     | 98314.87  | 537805.38 |
| 33     | 18309.35  | 18624.18 | 27     | 98309.55  | 536936.30 |
| 34     | 18337.95  | 18654.28 | 26     | 98304.22  | 536069.93 |
| 35     | 18366.54  | 18684.38 | 25     | 98298.88  | 535206.26 |
| 36     | 18395.13  | 18714.49 | 24     | 98293.53  | 534345.27 |
| 37     | 18423.73  | 18744.60 | 23     | 98288.17  | 533486.96 |
| 38     | 18452.32  | 18774.71 | 22     | 98282.81  | 532631.31 |
| 39     | 18480.91  | 18804.83 | 21     | 98277.44  | 531778.30 |
| 40     | 18509.49  | 18834.95 | 20     | 98272.06  | 530927.93 |
| 41     | 18538.08  | 18865.07 | 19     | 98266.67  | 530080.18 |
| 42     | 18566.66  | 18895.20 | 18     | 98261.27  | 529235.05 |
| 43     | 18595.24  | 18925.33 | 17     | 98255.87  | 528392.51 |
| 44     | 18623.82  | 18955.46 | 16     | 98250.46  | 527552.55 |
| 45     | 18652.40  | 18985.59 | 15     | 98245.04  | 526715.17 |
| 46     | 18680.98  | 19015.73 | 14     | 98239.61  | 525880.35 |
| 47     | 18709.56  | 19045.87 | 13     | 98234.17  | 525048.09 |
| 48     | 18738.13  | 19076.02 | 12     | 98228.72  | 524218.36 |
| 49     | 18766.70  | 19106.17 | 11     | 98223.27  | 523391.16 |
| 50     | 18795.27  | 19136.32 | 10     | 98217.81  | 522566.47 |
| 51     | 18823.84  | 19166.48 | 9      | 98212.34  | 521744.28 |
| 52     | 18852.41  | 19196.64 | 8      | 98206.86  | 520924.59 |
| 53     | 18880.98  | 19226.80 | 7      | 98201.37  | 520107.38 |
| 54     | 18909.54  | 19256.96 | 6      | 98195.87  | 519292.64 |
| 55     | 18938.11  | 19287.13 | 5      | 98190.36  | 518480.35 |
| 56     | 18966.67  | 19317.30 | 4      | 98184.85  | 517670.51 |
| 57     | 18995.23  | 19347.48 | 3      | 98179.33  | 516863.11 |
| 58     | 19023.79  | 19377.66 | 2      | 98173.80  | 516058.13 |
| 59     | 19052.34  | 19407.84 | 1      | 98168.26  | 515255.57 |
| 60     | 19080.90  | 19438.03 | 0      | 98162.71  | 514455.40 |



| Minut. | 11. Grad. |          | Minut. | 78. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 19080.90  | 19438.03 | 60     | 98162.71  | 514455.40 |
| 1      | 19109.45  | 19468.22 | 59     | 98157.16  | 513657.63 |
| 2      | 19138.00  | 19498.41 | 58     | 98151.60  | 512862.24 |
| 3      | 19166.55  | 19528.61 | 57     | 98146.03  | 512069.21 |
| 4      | 19195.10  | 19558.81 | 56     | 98140.45  | 511278.55 |
| 5      | 19223.65  | 19589.01 | 55     | 98134.86  | 510490.24 |
| 6      | 19252.20  | 19619.22 | 54     | 98129.26  | 509704.26 |
| 7      | 19280.74  | 19649.43 | 53     | 98123.66  | 508920.61 |
| 8      | 19309.28  | 19679.64 | 52     | 98118.05  | 508139.28 |
| 9      | 19337.82  | 19709.86 | 51     | 98112.43  | 507360.25 |
| 10     | 19366.36  | 19740.08 | 50     | 98106.80  | 506583.52 |
| 11     | 19394.90  | 19770.30 | 49     | 98101.16  | 505809.07 |
| 12     | 19423.44  | 19800.53 | 48     | 98095.51  | 505036.90 |
| 13     | 19451.97  | 19830.76 | 47     | 98089.86  | 504267.00 |
| 14     | 19480.50  | 19861.00 | 46     | 98084.20  | 503499.35 |
| 15     | 19509.03  | 19891.24 | 45     | 98078.53  | 502733.95 |
| 16     | 19537.56  | 19921.48 | 44     | 98072.85  | 501970.78 |
| 17     | 19566.09  | 19951.72 | 43     | 98067.16  | 501209.84 |
| 18     | 19594.61  | 19981.97 | 42     | 98061.46  | 500451.11 |
| 19     | 19623.14  | 20012.22 | 41     | 98055.76  | 499694.59 |
| 20     | 19651.66  | 20042.48 | 40     | 98050.05  | 498940.27 |
| 21     | 19680.18  | 20072.74 | 39     | 98044.33  | 498188.13 |
| 22     | 19708.70  | 20103.00 | 38     | 98038.60  | 497438.17 |
| 23     | 19737.22  | 20133.27 | 37     | 98032.86  | 496690.37 |
| 24     | 19765.73  | 20163.54 | 36     | 98027.11  | 495944.74 |
| 25     | 19794.25  | 20193.81 | 35     | 98021.36  | 495201.25 |
| 26     | 19822.76  | 20224.09 | 34     | 98015.60  | 494459.90 |
| 27     | 19851.27  | 20254.37 | 33     | 98009.83  | 493720.68 |
| 28     | 19879.78  | 20284.65 | 32     | 98004.05  | 492983.58 |
| 29     | 19908.29  | 20314.94 | 31     | 97998.26  | 492248.59 |
| 30     | 19936.79  | 20345.23 | 30     | 97992.47  | 491515.70 |



| Minut. | 11. Grad. |          | Minut. | 78. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 19936.79  | 20345.23 | 30     | 97992.47  | 491515.70 |
| 31     | 19965.30  | 20375.52 | 29     | 97986.67  | 490784.91 |
| 32     | 19993.80  | 20405.82 | 28     | 97980.86  | 490056.20 |
| 33     | 20022.30  | 20436.12 | 27     | 97975.04  | 489329.56 |
| 34     | 20050.80  | 20466.43 | 26     | 97969.21  | 488604.99 |
| 35     | 20079.30  | 20496.74 | 25     | 97963.37  | 487882.48 |
| 36     | 20107.79  | 20527.05 | 24     | 97957.52  | 487162.01 |
| 37     | 20136.29  | 20557.37 | 23     | 97951.67  | 486443.59 |
| 38     | 20164.78  | 20587.69 | 22     | 97945.81  | 485727.19 |
| 39     | 20193.27  | 20618.01 | 21     | 97939.94  | 485012.82 |
| 40     | 20221.76  | 20648.34 | 20     | 97934.06  | 484300.45 |
| 41     | 20250.24  | 20678.67 | 19     | 97928.17  | 483590.10 |
| 42     | 20278.73  | 20709.00 | 18     | 97922.28  | 482881.74 |
| 43     | 20307.21  | 20739.34 | 17     | 97916.38  | 482175.36 |
| 44     | 20335.69  | 20769.68 | 16     | 97910.47  | 481470.96 |
| 45     | 20364.17  | 20800.03 | 15     | 97904.55  | 480768.54 |
| 46     | 20392.65  | 20830.38 | 14     | 97898.62  | 480068.08 |
| 47     | 20421.13  | 20860.73 | 13     | 97892.68  | 479369.57 |
| 48     | 20449.61  | 20891.09 | 12     | 97886.74  | 478673.00 |
| 49     | 20478.08  | 20921.45 | 11     | 97880.79  | 477978.37 |
| 50     | 20506.55  | 20951.81 | 10     | 97874.83  | 477285.67 |
| 51     | 20535.02  | 20982.18 | 9      | 97868.86  | 476594.90 |
| 52     | 20563.49  | 21012.55 | 8      | 97862.88  | 475906.03 |
| 53     | 20591.95  | 21042.3  | 7      | 97856.89  | 475219.07 |
| 54     | 20620.42  | 21073.31 | 6      | 97850.90  | 474534.01 |
| 55     | 20648.88  | 21103.69 | 5      | 97844.90  | 473850.83 |
| 56     | 20677.34  | 21134.07 | 4      | 97838.89  | 473169.54 |
| 57     | 20705.80  | 21164.46 | 3      | 97832.87  | 472490.12 |
| 58     | 20734.26  | 21194.85 | 2      | 97826.84  | 471812.56 |
| 59     | 20762.71  | 21225.26 | 1      | 97820.80  | 471136.86 |
| 60     | 20791.17  | 21255.65 | 0      | 97814.76  | 470463.01 |



| Minut. | 12. Grad. |          | Minut. | 7. Grad. |           |
|--------|-----------|----------|--------|----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.   | Tang.     |
| 0      | 20791.17  | 21255.65 | 60     | 97814.76 | 470463.01 |
| 1      | 20819.62  | 21286.06 | 59     | 97808.71 | 469791.00 |
| 2      | 20848.07  | 21316.47 | 58     | 97802.65 | 469120.83 |
| 3      | 20876.52  | 21346.88 | 57     | 97796.58 | 468452.48 |
| 4      | 20904.97  | 21377.30 | 56     | 97790.50 | 467785.95 |
| 5      | 20933.41  | 21407.72 | 55     | 97784.41 | 467121.24 |
| 6      | 20961.86  | 21438.14 | 54     | 97778.32 | 456458.32 |
| 7      | 20990.30  | 21468.57 | 53     | 97772.22 | 465797.21 |
| 8      | 21018.74  | 21499.00 | 52     | 97766.11 | 465137.88 |
| 9      | 21047.18  | 21529.44 | 51     | 97759.99 | 464480.34 |
| 10     | 21075.61  | 21559.88 | 50     | 97753.86 | 463824.57 |
| 11     | 21104.05  | 21590.32 | 49     | 97747.73 | 463170.56 |
| 12     | 21132.48  | 21620.77 | 48     | 97741.59 | 462518.32 |
| 13     | 21160.91  | 21651.22 | 47     | 97735.44 | 461867.83 |
| 14     | 21189.34  | 21681.67 | 46     | 97729.28 | 461219.08 |
| 15     | 21217.77  | 21712.13 | 45     | 97723.11 | 460572.07 |
| 16     | 21246.19  | 21742.59 | 44     | 97716.93 | 459926.80 |
| 17     | 21274.62  | 21773.06 | 43     | 97710.75 | 459283.25 |
| 18     | 21303.04  | 21803.53 | 42     | 97704.56 | 458641.41 |
| 19     | 21331.46  | 21834.00 | 41     | 97698.36 | 458001.29 |
| 20     | 21359.88  | 21864.48 | 40     | 97692.15 | 457362.87 |
| 21     | 21388.29  | 21894.96 | 39     | 97685.93 | 456726.14 |
| 22     | 21416.71  | 21925.44 | 38     | 97679.70 | 456091.11 |
| 23     | 21445.12  | 21955.93 | 37     | 97673.47 | 455457.76 |
| 24     | 21473.53  | 21986.42 | 36     | 97667.23 | 454826.08 |
| 25     | 21501.94  | 22016.92 | 35     | 97660.98 | 454196.08 |
| 26     | 21530.35  | 22047.42 | 34     | 97654.72 | 453567.73 |
| 27     | 21558.76  | 22077.93 | 33     | 97648.45 | 452941.05 |
| 28     | 21587.16  | 22108.44 | 32     | 97642.17 | 452316.01 |
| 29     | 21615.56  | 22138.95 | 31     | 97635.89 | 451692.61 |
| 30     | 21643.96  | 22169.47 | 30     | 97629.60 | 451070.85 |

N. 236.

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| Minut. | 12. Grad. |          | Minut. | 77. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 21643.96  | 22169.47 | 30     | 97629.60  | 451070.85 |
| 31     | 21672.36  | 22199.99 | 29     | 97623.30  | 450450.72 |
| 32     | 21700.76  | 22230.51 | 38     | 97616.99  | 449832.21 |
| 33     | 21729.15  | 22261.04 | 27     | 97610.67  | 449215.32 |
| 34     | 21757.54  | 22291.57 | 26     | 97604.35  | 448600.04 |
| 35     | 21785.93  | 22322.11 | 25     | 97598.02  | 447986.36 |
| 36     | 21814.32  | 22352.65 | 24     | 97591.68  | 447374.28 |
| 37     | 21842.71  | 22383.19 | 23     | 97585.33  | 446763.79 |
| 38     | 21871.10  | 22413.74 | 22     | 97578.97  | 446154.89 |
| 39     | 21899.48  | 22444.29 | 21     | 97572.60  | 445547.56 |
| 40     | 21927.86  | 22474.85 | 20     | 97566.23  | 444941.81 |
| 41     | 21956.24  | 22505.41 | 19     | 97559.85  | 444337.62 |
| 42     | 21984.62  | 22535.97 | 18     | 97553.46  | 443734.99 |
| 43     | 22013.00  | 22566.54 | 17     | 97547.06  | 443133.92 |
| 44     | 22041.37  | 22597.11 | 16     | 97540.65  | 442534.39 |
| 45     | 22069.74  | 22627.69 | 15     | 97534.23  | 441936.41 |
| 46     | 22098.11  | 22658.27 | 14     | 97527.81  | 441339.96 |
| 47     | 22126.48  | 22688.85 | 13     | 97521.38  | 440745.04 |
| 48     | 22154.85  | 22719.44 | 12     | 97514.94  | 440151.64 |
| 49     | 22183.21  | 22750.03 | 11     | 97508.49  | 439559.76 |
| 50     | 22211.58  | 22780.63 | 10     | 97502.03  | 438969.40 |
| 51     | 22239.94  | 22811.23 | 9      | 97495.56  | 438380.54 |
| 52     | 22268.30  | 22841.83 | 8      | 97489.09  | 437793.17 |
| 53     | 22296.66  | 22872.44 | 7      | 97482.61  | 437207.31 |
| 54     | 22325.01  | 22903.05 | 6      | 97476.12  | 436622.93 |
| 55     | 22353.37  | 22933.67 | 5      | 97469.62  | 436040.03 |
| 56     | 22381.72  | 22964.29 | 4      | 97463.11  | 435458.61 |
| 57     | 22410.07  | 22994.92 | 3      | 97456.60  | 434878.66 |
| 58     | 22438.41  | 23025.55 | 2      | 97450.08  | 434300.18 |
| 59     | 22466.76  | 23056.18 | 1      | 97443.55  | 433723.16 |
| 60     | 22495.11  | 23086.82 | 0      | 97437.01  | 433147.59 |

N. 237.



| Minut. | 13. Grad. |          | Minut. | 76. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 22495.11  | 23086.82 | 60     | 97437.01  | 433147.59 |
| 1      | 22523.45  | 23117.46 | 59     | 97430.46  | 432573.47 |
| 2      | 22551.79  | 23148.11 | 58     | 97423.90  | 432000.79 |
| 3      | 22580.13  | 23178.76 | 57     | 97417.34  | 431429.55 |
| 4      | 22608.46  | 23209.41 | 56     | 97410.77  | 430859.74 |
| 5      | 22636.80  | 23240.07 | 55     | 97404.19  | 430291.36 |
| 6      | 22665.13  | 23270.73 | 54     | 97397.60  | 429724.40 |
| 7      | 22693.46  | 23301.40 | 53     | 97391.00  | 429158.85 |
| 8      | 22721.79  | 23332.07 | 52     | 97384.39  | 428594.72 |
| 9      | 22750.12  | 23362.74 | 51     | 97377.78  | 428031.99 |
| 10     | 22778.44  | 23393.42 | 50     | 97371.16  | 427470.66 |
| 11     | 22806.77  | 23424.10 | 49     | 97364.53  | 426910.72 |
| 12     | 22835.09  | 23454.79 | 48     | 97357.89  | 426352.18 |
| 13     | 22863.41  | 23485.48 | 47     | 97351.24  | 425795.01 |
| 14     | 22891.72  | 23516.17 | 46     | 97344.58  | 425239.23 |
| 15     | 22920.04  | 23546.87 | 45     | 97337.92  | 424684.82 |
| 16     | 22948.35  | 23577.58 | 44     | 97331.25  | 424131.77 |
| 17     | 22976.66  | 23608.29 | 43     | 97324.57  | 423580.09 |
| 18     | 23004.97  | 23639.00 | 42     | 97317.88  | 423029.77 |
| 19     | 23033.28  | 23669.72 | 41     | 97311.18  | 422480.80 |
| 20     | 23061.59  | 23700.44 | 40     | 97304.48  | 421933.18 |
| 21     | 23089.89  | 23731.16 | 39     | 97297.77  | 421386.90 |
| 22     | 23118.19  | 23761.89 | 38     | 97291.05  | 420841.96 |
| 23     | 23146.49  | 23792.62 | 37     | 97284.32  | 420298.35 |
| 24     | 23174.79  | 23823.36 | 36     | 97277.58  | 419756.06 |
| 25     | 23203.09  | 23854.10 | 35     | 97270.84  | 419215.10 |
| 26     | 23231.38  | 23884.85 | 34     | 97264.09  | 418675.46 |
| 27     | 23259.67  | 23915.60 | 33     | 97257.33  | 418137.13 |
| 28     | 23287.96  | 23946.35 | 32     | 97250.56  | 417600.11 |
| 29     | 23316.25  | 23977.11 | 31     | 97243.78  | 417064.40 |
| 30     | 23344.54  | 24007.87 | 30     | 97236.99  | 416529.98 |



| Minut. | 13. Grad. |          | Minut. | 76. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 23344.54  | 24007.87 | 30     | 97236.99  | 416529.98 |
| 31     | 23372.82  | 24038.64 | 29     | 97230.19  | 415996.85 |
| 32     | 23401.10  | 24069.41 | 28     | 97223.39  | 415465.01 |
| 33     | 23429.38  | 24100.19 | 27     | 97216.58  | 414934.46 |
| 34     | 23457.66  | 24130.97 | 26     | 97209.76  | 414405.19 |
| 35     | 23485.94  | 24161.76 | 25     | 97202.93  | 413877.19 |
| 36     | 23514.21  | 24192.55 | 24     | 97196.09  | 413350.46 |
| 37     | 23542.48  | 24223.34 | 23     | 97189.25  | 412824.99 |
| 38     | 23570.75  | 24254.14 | 22     | 97182.40  | 412300.79 |
| 39     | 23599.02  | 24284.94 | 21     | 97175.54  | 411777.84 |
| 40     | 23627.29  | 24315.75 | 20     | 97168.67  | 411256.14 |
| 41     | 23655.55  | 24346.56 | 19     | 97161.79  | 410735.69 |
| 42     | 23683.81  | 24377.37 | 18     | 97154.91  | 410216.49 |
| 43     | 23712.07  | 24408.19 | 17     | 97148.02  | 409698.52 |
| 44     | 23740.33  | 24439.01 | 16     | 97141.12  | 409181.78 |
| 45     | 23768.59  | 24469.84 | 15     | 97134.21  | 408666.27 |
| 46     | 23796.84  | 24500.67 | 14     | 97127.29  | 408151.99 |
| 47     | 23825.10  | 24531.51 | 13     | 97120.36  | 407638.92 |
| 48     | 23853.35  | 24562.35 | 12     | 97113.43  | 407127.07 |
| 49     | 23881.59  | 24593.20 | 11     | 97106.49  | 406616.43 |
| 50     | 23909.84  | 24624.05 | 10     | 97099.54  | 406107.00 |
| 51     | 23938.08  | 24654.91 | 9      | 97092.58  | 405598.77 |
| 52     | 23966.33  | 24685.77 | 8      | 97085.61  | 405091.74 |
| 53     | 23994.57  | 24716.63 | 7      | 97078.63  | 404585.90 |
| 54     | 24022.80  | 24747.50 | 6      | 97071.65  | 404081.25 |
| 55     | 24051.04  | 24778.37 | 5      | 97064.66  | 403577.79 |
| 56     | 24079.27  | 24809.25 | 4      | 97057.66  | 403075.50 |
| 57     | 24107.51  | 24840.13 | 3      | 97050.65  | 402574.40 |
| 58     | 24135.74  | 24871.02 | 2      | 97043.63  | 402074.46 |
| 59     | 24163.96  | 24901.91 | 1      | 97036.60  | 401575.70 |
| 60     | 24192.19  | 24932.80 | 0      | 97029.57  | 401078.09 |



| Minut. | 14. Grad. |          | Minut. | 75. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 24192.19  | 24932.80 | 60     | 97029.57  | 401078.09 |
| 1      | 24220.41  | 24963.70 | 59     | 97022.53  | 400581.65 |
| 2      | 24248.63  | 24994.60 | 58     | 97015.48  | 400086.36 |
| 3      | 24276.85  | 25025.51 | 57     | 97008.42  | 399592.23 |
| 4      | 24305.07  | 25056.42 | 56     | 97001.35  | 399099.24 |
| 5      | 24333.29  | 25087.34 | 55     | 96994.28  | 398607.39 |
| 6      | 24361.50  | 25118.26 | 54     | 96987.20  | 398116.69 |
| 7      | 24389.71  | 25149.19 | 53     | 96980.11  | 397627.12 |
| 8      | 24417.92  | 25180.12 | 52     | 96973.01  | 397138.68 |
| 9      | 24446.13  | 25211.06 | 51     | 96965.90  | 396651.37 |
| 10     | 24474.33  | 25242.00 | 50     | 96958.79  | 396165.18 |
| 11     | 24502.54  | 25272.94 | 49     | 96951.67  | 395680.11 |
| 12     | 24530.74  | 25303.89 | 48     | 96944.54  | 395196.15 |
| 13     | 24558.94  | 25334.84 | 47     | 96937.40  | 394713.31 |
| 14     | 24587.13  | 25365.80 | 46     | 96930.25  | 394231.57 |
| 15     | 24615.33  | 25396.76 | 45     | 96923.09  | 393750.94 |
| 16     | 24643.52  | 25427.73 | 44     | 96915.92  | 393271.41 |
| 17     | 24671.71  | 25458.70 | 43     | 96908.75  | 392792.97 |
| 18     | 24699.90  | 25489.68 | 42     | 96901.57  | 392315.63 |
| 19     | 24728.09  | 25520.66 | 41     | 96894.38  | 391839.37 |
| 20     | 24756.27  | 25551.65 | 40     | 96887.18  | 391364.20 |
| 21     | 24784.45  | 25582.64 | 39     | 96879.98  | 390890.11 |
| 22     | 24812.63  | 25613.63 | 38     | 96872.77  | 390417.10 |
| 23     | 24840.81  | 25644.63 | 37     | 96865.55  | 389945.16 |
| 24     | 24868.99  | 25675.63 | 36     | 96858.32  | 389474.29 |
| 25     | 24897.16  | 25706.64 | 35     | 96851.08  | 389004.48 |
| 26     | 24925.33  | 25737.66 | 34     | 96843.83  | 388535.74 |
| 27     | 24953.50  | 25768.68 | 33     | 96836.58  | 388068.05 |
| 28     | 24981.67  | 25799.70 | 32     | 96829.31  | 387601.42 |
| 29     | 25009.84  | 25830.73 | 31     | 96822.04  | 387135.84 |
| 30     | 25038.00  | 25861.76 | 30     | 96814.76  | 386671.31 |



| Minut. | 14. Grad. |          | Minut. | 75. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 25038.00  | 25861.76 | 30     | 96814.76  | 386671.31 |
| 31     | 25066.16  | 25892.80 | 29     | 96807.47  | 386207.82 |
| 32     | 25094.32  | 25923.84 | 28     | 96800.18  | 385745.37 |
| 33     | 25122.48  | 25954.88 | 27     | 96792.88  | 385283.96 |
| 34     | 25150.63  | 25985.93 | 26     | 96785.57  | 384823.58 |
| 35     | 25178.79  | 26016.99 | 25     | 96778.25  | 384364.24 |
| 36     | 25206.94  | 26048.05 | 24     | 96770.92  | 383905.91 |
| 37     | 25235.08  | 26079.11 | 23     | 96763.58  | 383448.61 |
| 38     | 25263.23  | 26110.18 | 22     | 96756.23  | 382992.33 |
| 39     | 25291.37  | 26141.26 | 21     | 96748.88  | 382537.07 |
| 40     | 25319.52  | 26172.34 | 20     | 96741.52  | 382082.81 |
| 41     | 25347.66  | 26203.42 | 19     | 96734.15  | 381629.57 |
| 42     | 25375.79  | 26234.51 | 18     | 96726.77  | 381177.33 |
| 43     | 25403.93  | 26265.60 | 17     | 96719.38  | 380726.06 |
| 44     | 25432.06  | 26296.70 | 16     | 96711.99  | 380275.85 |
| 45     | 25460.19  | 26327.80 | 15     | 96704.59  | 379826.61 |
| 46     | 25488.32  | 26358.91 | 14     | 96697.18  | 379378.35 |
| 47     | 25516.45  | 26390.02 | 13     | 96689.76  | 378931.09 |
| 48     | 25544.58  | 26421.14 | 12     | 96682.33  | 378484.81 |
| 49     | 25572.70  | 26452.26 | 11     | 96674.90  | 378039.51 |
| 50     | 25600.82  | 26483.39 | 10     | 96667.46  | 377595.19 |
| 51     | 25628.94  | 26514.52 | 9      | 96660.01  | 377151.85 |
| 52     | 25657.05  | 26545.66 | 8      | 96652.55  | 376709.47 |
| 53     | 25685.17  | 26576.80 | 7      | 96645.08  | 376268.07 |
| 54     | 25713.28  | 26607.94 | 6      | 96637.60  | 375827.63 |
| 55     | 25741.39  | 26639.09 | 5      | 96630.12  | 375388.15 |
| 56     | 25769.50  | 26670.25 | 4      | 96622.63  | 374949.63 |
| 57     | 25797.60  | 26701.41 | 3      | 96615.13  | 374512.07 |
| 58     | 25825.70  | 26732.57 | 2      | 96607.62  | 374075.46 |
| 59     | 25853.81  | 26763.74 | 1      | 96600.10  | 373639.80 |
| 60     | 25881.90  | 26794.92 | 0      | 96592.58  | 373205.08 |



| Minur. | 15. Grad. |          | Minur | 74. Grad. |           |
|--------|-----------|----------|-------|-----------|-----------|
|        | Sinus.    | Tang.    |       | Sinus.    | Tang.     |
| 0      | 25881.90  | 26794.92 | 60    | 96592.58  | 373205.08 |
| 1      | 25910.00  | 26826.10 | 59    | 96585.05  | 372771.31 |
| 2      | 25938.10  | 26857.28 | 58    | 96577.51  | 372338.47 |
| 3      | 25966.19  | 26888.47 | 57    | 96569.96  | 371906.58 |
| 4      | 25994.28  | 26919.67 | 56    | 96562.40  | 371475.61 |
| 5      | 26022.37  | 26950.85 | 55    | 96554.83  | 371045.58 |
| 6      | 26050.45  | 26982.07 | 54    | 96547.26  | 370616.48 |
| 7      | 26078.53  | 27013.28 | 53    | 96539.68  | 370188.30 |
| 8      | 26106.61  | 27044.49 | 52    | 96532.09  | 369761.03 |
| 9      | 26134.69  | 27075.71 | 51    | 96524.49  | 369334.69 |
| 10     | 26162.77  | 27106.93 | 50    | 96516.88  | 368909.27 |
| 11     | 26190.85  | 27138.16 | 49    | 96509.27  | 368484.75 |
| 12     | 26218.92  | 27169.40 | 48    | 96501.65  | 368061.15 |
| 13     | 26246.99  | 27200.64 | 47    | 96494.02  | 367638.45 |
| 14     | 26275.06  | 27231.88 | 46    | 96486.38  | 367216.65 |
| 15     | 26303.12  | 27263.13 | 45    | 96478.73  | 366795.75 |
| 16     | 26331.18  | 27294.38 | 44    | 96471.07  | 366375.75 |
| 17     | 26359.24  | 27325.64 | 43    | 96463.41  | 365956.65 |
| 18     | 26387.30  | 27356.90 | 42    | 96455.74  | 365538.44 |
| 19     | 26415.36  | 27388.17 | 41    | 96448.06  | 365121.11 |
| 20     | 26443.42  | 27419.44 | 40    | 96440.37  | 364704.67 |
| 21     | 26471.47  | 27450.72 | 39    | 96432.67  | 364289.11 |
| 22     | 26499.52  | 27482.01 | 38    | 96424.97  | 363874.44 |
| 23     | 26527.57  | 27513.30 | 37    | 96417.26  | 363460.64 |
| 24     | 26555.61  | 27544.59 | 36    | 96409.54  | 363047.71 |
| 25     | 26583.65  | 27575.89 | 35    | 96401.81  | 362635.66 |
| 26     | 26611.69  | 27607.19 | 34    | 96394.07  | 362224.47 |
| 27     | 26639.73  | 27638.50 | 33    | 96386.33  | 361814.15 |
| 28     | 26667.77  | 27669.81 | 32    | 96378.58  | 361404.69 |
| 29     | 26695.81  | 27701.13 | 31    | 96370.82  | 360996.09 |
| 30     | 26723.84  | 27732.45 | 30    | 96363.05  | 360588.35 |



| Minut. | 15. Grad. |          | Minut. | 74. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 26723.84  | 27732.45 | 30     | 96363.05  | 360588.35 |
| 31     | 26751.87  | 27763.78 | 29     | 96355.27  | 360181.46 |
| 32     | 26779.89  | 27795.12 | 28     | 96347.48  | 359775.43 |
| 33     | 26807.92  | 27826.46 | 27     | 96339.69  | 359370.24 |
| 34     | 26835.94  | 27857.80 | 26     | 96331.89  | 358965.90 |
| 35     | 26863.96  | 27889.15 | 25     | 96324.08  | 358562.41 |
| 36     | 26891.98  | 27920.50 | 24     | 96316.26  | 358159.75 |
| 37     | 26920.00  | 27951.86 | 23     | 96308.43  | 357757.94 |
| 38     | 26948.01  | 27983.22 | 22     | 96300.59  | 357356.96 |
| 39     | 26976.02  | 28014.59 | 21     | 96292.75  | 356956.81 |
| 40     | 27004.03  | 28045.97 | 20     | 96284.90  | 356557.49 |
| 41     | 27032.04  | 28077.35 | 19     | 96277.04  | 356159.00 |
| 42     | 27060.04  | 28108.73 | 18     | 96269.17  | 355761.33 |
| 43     | 27088.05  | 28140.12 | 17     | 96261.30  | 355364.49 |
| 44     | 27116.05  | 28171.52 | 16     | 96253.42  | 354968.46 |
| 45     | 27144.04  | 28202.92 | 15     | 96245.52  | 354573.25 |
| 46     | 27172.04  | 28234.32 | 14     | 96237.62  | 354178.86 |
| 47     | 27200.03  | 28265.73 | 13     | 96229.72  | 353785.28 |
| 48     | 27228.02  | 28297.15 | 12     | 96221.80  | 353392.51 |
| 49     | 27256.01  | 28328.57 | 11     | 96213.87  | 353000.54 |
| 50     | 27284.00  | 28359.99 | 10     | 96205.94  | 352609.38 |
| 51     | 27311.98  | 28391.42 | 9      | 96198.00  | 352219.02 |
| 52     | 27339.96  | 28422.86 | 8      | 96190.05  | 351829.46 |
| 53     | 27367.94  | 28454.30 | 7      | 96182.09  | 351440.70 |
| 54     | 27395.92  | 28485.75 | 6      | 96174.13  | 351052.73 |
| 55     | 27423.90  | 28517.20 | 5      | 96166.16  | 350665.55 |
| 56     | 27451.87  | 28548.66 | 4      | 96158.18  | 350279.16 |
| 57     | 27479.84  | 28580.12 | 3      | 96150.19  | 349893.56 |
| 58     | 27507.81  | 28611.59 | 2      | 96142.19  | 349508.74 |
| 59     | 27535.78  | 28643.06 | 1      | 96134.18  | 349124.70 |
| 60     | 27563.74  | 28674.54 | 0      | 96126.17  | 348741.44 |



| Minut. | 16. Grad. |          | Minut. | 73. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 27563.74  | 28674.54 | 60     | 96126.17  | 348741.44 |
| 1      | 27591.70  | 28706.02 | 59     | 96118.15  | 348358.96 |
| 2      | 27619.65  | 28737.51 | 58     | 96110.12  | 347977.26 |
| 3      | 27647.61  | 28769.00 | 57     | 96102.08  | 347596.32 |
| 4      | 27675.56  | 28800.50 | 56     | 96094.03  | 347216.16 |
| 5      | 27703.52  | 28832.01 | 55     | 96085.98  | 346836.76 |
| 6      | 27731.47  | 28863.52 | 54     | 96077.92  | 346458.13 |
| 7      | 27759.41  | 28895.03 | 53     | 96069.84  | 346080.26 |
| 8      | 27787.36  | 28926.55 | 52     | 96061.77  | 345703.15 |
| 9      | 27815.30  | 28958.08 | 51     | 96053.68  | 345326.79 |
| 10     | 27843.24  | 28989.61 | 50     | 96045.58  | 344951.20 |
| 11     | 27871.18  | 29021.14 | 49     | 96037.48  | 344576.35 |
| 12     | 27899.11  | 29052.68 | 48     | 96029.37  | 344202.26 |
| 13     | 27927.04  | 29084.23 | 47     | 96021.25  | 343828.91 |
| 14     | 27954.97  | 29115.78 | 46     | 96013.12  | 343456.31 |
| 15     | 27982.90  | 29147.34 | 45     | 96004.99  | 343084.46 |
| 16     | 28010.83  | 29178.90 | 44     | 95996.84  | 342713.34 |
| 17     | 28038.75  | 29210.47 | 43     | 95988.69  | 342342.97 |
| 18     | 28066.67  | 29242.05 | 42     | 95980.53  | 341973.33 |
| 19     | 28094.59  | 29273.63 | 41     | 95972.36  | 341604.43 |
| 20     | 28122.51  | 29305.21 | 40     | 95964.18  | 341236.26 |
| 21     | 28150.42  | 29336.80 | 39     | 95956.00  | 340868.82 |
| 22     | 28178.33  | 29368.39 | 38     | 95947.81  | 340502.10 |
| 23     | 28206.24  | 29399.99 | 37     | 95939.61  | 340136.12 |
| 24     | 28234.15  | 29431.60 | 36     | 95931.40  | 339770.85 |
| 25     | 28262.05  | 29463.21 | 35     | 95923.18  | 339406.31 |
| 26     | 28289.95  | 29494.83 | 34     | 95914.96  | 339042.49 |
| 27     | 28317.85  | 29526.45 | 33     | 95906.72  | 338679.38 |
| 28     | 28345.75  | 29558.08 | 32     | 95898.48  | 338316.99 |
| 29     | 28373.64  | 29589.71 | 31     | 95890.23  | 337955.31 |
| 30     | 28401.53  | 29621.35 | 30     | 95881.97  | 337594.34 |

N. 244.

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| Minut. | 16. Grad. |          | Minut. | 73. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 28401.53  | 29621.35 | 30     | 95881.97  | 337594.34 |
| 31     | 28429.42  | 29652.99 | 29     | 95873.71  | 337234.08 |
| 32     | 28457.31  | 29684.64 | 28     | 95865.43  | 336874.53 |
| 33     | 28485.20  | 29716.30 | 27     | 95857.15  | 336515.68 |
| 34     | 28513.08  | 29747.96 | 26     | 95848.86  | 336157.53 |
| 35     | 28540.96  | 29779.62 | 25     | 95840.56  | 335800.08 |
| 36     | 28568.84  | 29811.29 | 24     | 95832.26  | 335443.33 |
| 37     | 28596.71  | 29842.97 | 23     | 95823.94  | 335087.28 |
| 38     | 28624.58  | 29874.65 | 22     | 95815.62  | 334731.91 |
| 39     | 28652.45  | 29906.34 | 21     | 95807.29  | 334377.24 |
| 40     | 28680.32  | 29938.03 | 20     | 95798.95  | 334023.26 |
| 41     | 28708.19  | 29969.73 | 19     | 95790.60  | 333669.97 |
| 42     | 28736.05  | 30001.44 | 18     | 95782.25  | 333317.36 |
| 43     | 28763.91  | 30033.15 | 17     | 95773.89  | 332965.43 |
| 44     | 28791.77  | 30064.86 | 16     | 95765.52  | 332614.19 |
| 45     | 28819.63  | 30096.58 | 15     | 95757.14  | 332263.62 |
| 46     | 28847.48  | 30128.31 | 14     | 95748.75  | 331913.73 |
| 47     | 28875.33  | 30160.04 | 13     | 95740.35  | 331564.52 |
| 48     | 28903.18  | 30191.78 | 12     | 95731.95  | 331215.98 |
| 49     | 28931.03  | 30223.52 | 11     | 95723.54  | 330868.11 |
| 50     | 28958.87  | 30255.27 | 10     | 95715.12  | 330520.91 |
| 51     | 28986.71  | 30287.03 | 9      | 95706.69  | 330174.38 |
| 52     | 29014.55  | 30318.79 | 8      | 95698.25  | 329828.51 |
| 53     | 29042.39  | 30350.55 | 7      | 95689.81  | 329483.30 |
| 54     | 29070.22  | 30382.32 | 6      | 95681.36  | 329138.76 |
| 55     | 29098.05  | 30414.10 | 5      | 95672.90  | 328794.87 |
| 56     | 29125.88  | 30445.88 | 4      | 95664.43  | 328451.64 |
| 57     | 29153.71  | 30477.67 | 3      | 95655.95  | 328109.07 |
| 58     | 29181.53  | 30509.46 | 2      | 95647.47  | 327767.15 |
| 59     | 29209.35  | 30541.26 | 1      | 95638.98  | 327425.88 |
| 60     | 29237.17  | 30573.07 | 0      | 95630.48  | 327085.26 |



| Minut. | 17. Grad. |          | Minut. | 72. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 29237.17  | 30573.07 | 60     | 95630.48  | 327085.26 |
| 1      | 29264.99  | 30604.88 | 59     | 95621.97  | 326745.29 |
| 2      | 29292.80  | 30636.69 | 58     | 95613.45  | 326405.96 |
| 3      | 29320.61  | 30668.51 | 57     | 95604.92  | 326067.28 |
| 4      | 29348.42  | 30700.34 | 56     | 95596.39  | 325729.24 |
| 5      | 29376.23  | 30732.18 | 55     | 95587.85  | 325391.84 |
| 6      | 29404.03  | 30764.02 | 54     | 95579.30  | 325055.08 |
| 7      | 29431.83  | 30795.86 | 53     | 95570.74  | 324718.95 |
| 8      | 29459.63  | 30827.71 | 52     | 95562.17  | 324383.46 |
| 9      | 29487.43  | 30859.57 | 51     | 95553.60  | 324048.60 |
| 10     | 29515.22  | 30891.43 | 50     | 95545.02  | 323714.38 |
| 11     | 29543.02  | 30923.30 | 49     | 95536.43  | 323380.78 |
| 12     | 29570.80  | 30955.17 | 48     | 95527.83  | 323047.80 |
| 13     | 29598.59  | 30987.05 | 47     | 95519.24  | 322715.46 |
| 14     | 29626.38  | 31018.93 | 46     | 95510.61  | 322383.73 |
| 15     | 29654.16  | 31050.82 | 45     | 95501.99  | 322052.63 |
| 16     | 29681.94  | 31082.72 | 44     | 95493.36  | 321722.15 |
| 17     | 29709.71  | 31114.62 | 43     | 95484.73  | 321392.28 |
| 18     | 29737.49  | 31146.53 | 42     | 95476.08  | 321063.04 |
| 19     | 29765.26  | 31178.44 | 41     | 95467.42  | 320734.40 |
| 20     | 29793.03  | 31210.36 | 40     | 95458.76  | 320406.38 |
| 21     | 29820.79  | 31242.29 | 39     | 95450.09  | 320078.97 |
| 22     | 29848.56  | 31274.22 | 38     | 95441.41  | 319752.17 |
| 23     | 29876.32  | 31306.16 | 37     | 95432.73  | 319425.98 |
| 24     | 29904.08  | 31338.10 | 36     | 95424.03  | 319100.39 |
| 25     | 29931.84  | 31370.05 | 35     | 95415.33  | 318775.40 |
| 26     | 29959.59  | 31402.00 | 34     | 95406.62  | 318451.02 |
| 27     | 29987.34  | 31433.96 | 33     | 95397.90  | 318127.24 |
| 28     | 30015.09  | 31465.93 | 32     | 95389.17  | 317804.06 |
| 29     | 30042.84  | 31497.90 | 31     | 95380.44  | 317481.47 |
| 30     | 30070.58  | 31529.88 | 30     | 95371.69  | 317159.48 |

N. 246.



| Minut. | 17. Grad. |          | Minut. | 72. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 30070.58  | 31529.88 | 30     | 95371.69  | 317159.48 |
| 31     | 30098.32  | 31561.86 | 29     | 95362.94  | 316838.08 |
| 32     | 30126.06  | 31593.85 | 28     | 95354.18  | 316517.28 |
| 33     | 30153.80  | 31625.85 | 27     | 95345.42  | 316197.06 |
| 34     | 30181.53  | 31657.85 | 26     | 95336.64  | 315877.44 |
| 35     | 30209.26  | 31689.86 | 25     | 95327.86  | 315558.40 |
| 36     | 30236.99  | 31721.87 | 24     | 95319.07  | 315239.94 |
| 37     | 30264.71  | 31753.89 | 23     | 95310.27  | 314922.07 |
| 38     | 30292.44  | 31785.91 | 22     | 95301.46  | 314604.78 |
| 39     | 30320.16  | 31817.94 | 21     | 95292.64  | 314288.07 |
| 40     | 30347.88  | 31849.98 | 20     | 95283.82  | 313971.94 |
| 41     | 30375.59  | 31882.02 | 19     | 95274.99  | 313656.39 |
| 42     | 30403.31  | 31914.07 | 18     | 95266.15  | 313341.41 |
| 43     | 30431.02  | 31946.13 | 17     | 95257.30  | 313027.01 |
| 44     | 30458.72  | 31978.19 | 16     | 95248.44  | 312713.17 |
| 45     | 30486.43  | 32010.25 | 15     | 95239.58  | 312399.91 |
| 46     | 30514.13  | 32042.32 | 14     | 95230.71  | 312087.22 |
| 47     | 30541.83  | 32074.40 | 13     | 95221.83  | 311775.09 |
| 48     | 30569.53  | 32106.49 | 12     | 95212.94  | 311463.53 |
| 49     | 30597.23  | 32138.58 | 11     | 95204.04  | 311152.54 |
| 50     | 30624.92  | 32170.67 | 10     | 95195.14  | 310842.10 |
| 51     | 30652.61  | 32202.77 | 9      | 95186.23  | 310532.23 |
| 52     | 30680.29  | 32234.88 | 8      | 95177.31  | 310222.91 |
| 53     | 30707.98  | 32267.00 | 7      | 95168.38  | 309914.16 |
| 54     | 30735.66  | 32299.12 | 6      | 94159.44  | 309605.96 |
| 55     | 30763.34  | 32331.25 | 5      | 95150.50  | 309298.31 |
| 56     | 30791.02  | 32363.38 | 4      | 95141.54  | 308991.22 |
| 57     | 30818.69  | 32395.52 | 3      | 95132.58  | 308684.68 |
| 58     | 30846.36  | 32427.66 | 2      | 95123.61  | 308378.69 |
| 59     | 30874.03  | 32459.81 | 1      | 95114.64  | 308073.25 |
| 60     | 30901.70  | 32491.97 | 0      | 95105.65  | 307768.35 |



| Minut. | 18. Grad. |          | Minut. | 71. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 30901.70  | 32491.97 | 60     | 95105.65  | 307768.35 |
| 1      | 30929.36  | 32524.13 | 59     | 95096.66  | 307464.00 |
| 2      | 30957.02  | 32556.30 | 58     | 95087.66  | 307160.20 |
| 3      | 30984.68  | 32588.48 | 57     | 95078.65  | 306856.93 |
| 4      | 31012.34  | 32620.66 | 56     | 95069.63  | 306554.21 |
| 5      | 31039.99  | 32652.85 | 55     | 95060.60  | 306252.03 |
| 6      | 31067.64  | 32685.04 | 54     | 95051.57  | 305950.38 |
| 7      | 31095.29  | 32717.24 | 53     | 95042.53  | 305649.28 |
| 8      | 31122.94  | 32749.44 | 52     | 95033.48  | 305348.70 |
| 9      | 31150.58  | 32781.65 | 51     | 95024.42  | 305048.66 |
| 10     | 31178.22  | 32813.87 | 50     | 95015.36  | 304749.15 |
| 11     | 31205.86  | 32846.10 | 49     | 95006.29  | 304450.18 |
| 12     | 31233.49  | 32878.33 | 48     | 94997.21  | 304151.73 |
| 13     | 31261.12  | 32910.56 | 47     | 94988.12  | 303853.81 |
| 14     | 31288.75  | 32942.80 | 46     | 94979.02  | 303556.41 |
| 15     | 31316.38  | 32975.05 | 45     | 94969.91  | 303259.54 |
| 16     | 31344.00  | 33007.31 | 44     | 94960.80  | 302963.20 |
| 17     | 31371.63  | 33039.57 | 43     | 94951.68  | 302667.37 |
| 18     | 31399.25  | 33071.84 | 42     | 94942.55  | 302372.07 |
| 19     | 31426.86  | 33104.11 | 41     | 94933.41  | 302077.28 |
| 20     | 31454.48  | 33136.39 | 40     | 94924.26  | 301783.01 |
| 21     | 31482.09  | 33168.68 | 39     | 94915.11  | 301489.26 |
| 22     | 31509.69  | 33200.97 | 38     | 94905.95  | 301196.02 |
| 23     | 31537.30  | 33233.27 | 37     | 94896.78  | 300903.30 |
| 24     | 31564.90  | 33265.57 | 36     | 94887.60  | 300611.09 |
| 25     | 31592.50  | 33297.88 | 35     | 94878.41  | 300319.39 |
| 26     | 31620.10  | 33330.20 | 34     | 94869.22  | 300028.20 |
| 27     | 31647.70  | 33362.52 | 33     | 94860.02  | 299737.51 |
| 28     | 31675.29  | 33394.85 | 32     | 94850.81  | 299447.34 |
| 29     | 31702.88  | 33427.19 | 31     | 94841.59  | 299157.66 |
| 30     | 31730.47  | 33459.53 | 30     | 94832.37  | 298868.50 |







| Minut. | 19. Grad. |          | Minut. | 70. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 32556.82  | 34432.76 | 60     | 94551.86  | 290421.09 |
| 1      | 32584.32  | 34465.30 | 59     | 94542.38  | 290146.88 |
| 2      | 32611.82  | 34497.85 | 58     | 94532.90  | 289873.14 |
| 3      | 32639.31  | 34530.40 | 57     | 94523.41  | 289599.86 |
| 4      | 32666.81  | 34562.96 | 56     | 94513.91  | 289327.04 |
| 5      | 32694.30  | 34595.53 | 55     | 94504.40  | 289054.67 |
| 6      | 32721.79  | 34628.10 | 54     | 94494.89  | 288782.77 |
| 7      | 32749.28  | 34660.68 | 53     | 94485.37  | 288511.32 |
| 8      | 32776.76  | 34693.27 | 52     | 94475.84  | 288240.33 |
| 9      | 32804.24  | 34725.86 | 51     | 94466.30  | 287969.79 |
| 10     | 32831.72  | 34758.46 | 50     | 94456.75  | 287699.70 |
| 11     | 32859.19  | 34791.07 | 49     | 94447.20  | 287430.07 |
| 12     | 32886.66  | 34823.68 | 48     | 94437.64  | 287160.88 |
| 13     | 32914.13  | 34856.30 | 47     | 94428.07  | 286892.15 |
| 14     | 32941.60  | 34888.93 | 46     | 94418.49  | 286623.86 |
| 15     | 32969.06  | 34921.56 | 45     | 94408.90  | 286356.02 |
| 16     | 32996.52  | 34954.20 | 44     | 94399.31  | 286088.63 |
| 17     | 33023.98  | 34986.85 | 43     | 94389.71  | 285821.68 |
| 18     | 33051.44  | 35019.50 | 42     | 94380.10  | 285555.17 |
| 19     | 33078.89  | 35052.16 | 41     | 94370.48  | 285289.11 |
| 20     | 33106.34  | 35084.83 | 40     | 94360.85  | 285023.49 |
| 21     | 33133.79  | 35117.50 | 39     | 94351.22  | 284758.31 |
| 22     | 33161.23  | 35150.18 | 38     | 94341.57  | 284493.56 |
| 23     | 33188.67  | 35182.87 | 37     | 94331.92  | 284229.26 |
| 24     | 33216.11  | 35215.56 | 36     | 94322.27  | 283965.39 |
| 25     | 33243.55  | 35248.26 | 35     | 94312.60  | 283701.96 |
| 26     | 33270.98  | 35280.97 | 34     | 94302.93  | 283438.96 |
| 27     | 33298.41  | 35313.68 | 33     | 94293.25  | 283176.39 |
| 28     | 33325.84  | 35346.40 | 32     | 94283.56  | 282914.26 |
| 29     | 33353.27  | 35379.13 | 31     | 94273.86  | 282652.56 |
| 30     | 33380.69  | 35411.86 | 30     | 94264.15  | 282391.29 |

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| Minur. | 19. Grad. |          | Minur. | 70. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 33380.69  | 35411.86 | 30     | 94264.15  | 282391.29 |
| 31     | 33408.10  | 35444.60 | 29     | 94254.43  | 282130.45 |
| 32     | 33435.52  | 35477.35 | 28     | 94244.71  | 281870.03 |
| 33     | 33462.93  | 35510.10 | 27     | 94234.98  | 281610.04 |
| 34     | 33490.34  | 35542.86 | 26     | 94225.24  | 281350.48 |
| 35     | 33517.75  | 35575.63 | 25     | 94215.50  | 281091.34 |
| 36     | 33545.16  | 35608.40 | 24     | 94205.75  | 280832.63 |
| 37     | 33572.56  | 35641.18 | 23     | 94195.98  | 280574.33 |
| 38     | 33599.96  | 35673.97 | 22     | 94186.21  | 280316.46 |
| 39     | 33627.35  | 35706.76 | 21     | 94176.44  | 280059.01 |
| 40     | 33654.75  | 35739.56 | 20     | 94166.65  | 279801.98 |
| 41     | 33682.14  | 35772.37 | 19     | 94156.86  | 279545.37 |
| 42     | 33709.53  | 35805.18 | 18     | 94147.05  | 279289.17 |
| 43     | 33736.91  | 35838.00 | 17     | 94137.24  | 279033.39 |
| 44     | 33764.29  | 35870.83 | 16     | 94127.43  | 278778.02 |
| 45     | 33791.67  | 35903.67 | 15     | 94117.60  | 278523.07 |
| 46     | 33819.05  | 35936.51 | 14     | 94107.77  | 278268.53 |
| 47     | 33846.42  | 35969.36 | 13     | 94097.93  | 278014.40 |
| 48     | 33873.79  | 36002.22 | 12     | 94088.08  | 277760.69 |
| 49     | 33901.16  | 36035.08 | 11     | 94078.22  | 277507.38 |
| 50     | 33928.53  | 36067.95 | 10     | 94068.35  | 277254.48 |
| 51     | 33955.9   | 36100.83 | 9      | 94058.48  | 277001.99 |
| 52     | 33983.25  | 36133.71 | 8      | 94048.60  | 276749.90 |
| 53     | 34010.60  | 36166.60 | 7      | 94038.71  | 276498.22 |
| 54     | 34037.95  | 36199.50 | 6      | 94028.81  | 276246.95 |
| 55     | 34065.30  | 36232.40 | 5      | 94018.91  | 275996.08 |
| 56     | 34092.65  | 36265.31 | 4      | 94008.99  | 275745.61 |
| 57     | 34120.00  | 36298.23 | 3      | 93999.07  | 275495.54 |
| 58     | 34147.34  | 36331.15 | 2      | 93989.14  | 275245.88 |
| 59     | 34174.68  | 36364.08 | 1      | 93979.21  | 274996.61 |
| 60     | 34202.01  | 36397.02 | 0      | 93969.26  | 274747.74 |



| Minut. | 20. Grad. |          | Minut. | 69. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 34202.02  | 36397.02 | 60     | 93969.26  | 274747.74 |
| 1      | 34229.35  | 36429.97 | 59     | 93959.31  | 274499.27 |
| 2      | 34256.68  | 36462.92 | 58     | 93949.35  | 274251.20 |
| 3      | 34284.01  | 36495.88 | 57     | 93939.38  | 274003.52 |
| 4      | 34311.33  | 36528.85 | 56     | 93929.40  | 273756.23 |
| 5      | 34338.65  | 36561.82 | 55     | 93919.42  | 273509.34 |
| 6      | 34365.97  | 36594.80 | 54     | 93909.43  | 273262.84 |
| 7      | 34393.29  | 36627.79 | 53     | 93899.43  | 273016.74 |
| 8      | 34420.60  | 36660.79 | 52     | 93889.42  | 272771.02 |
| 9      | 34447.91  | 36693.79 | 51     | 93879.40  | 272525.69 |
| 10     | 34475.21  | 36726.80 | 50     | 93869.37  | 272280.75 |
| 11     | 34502.52  | 36759.82 | 49     | 93859.34  | 272036.20 |
| 12     | 34529.82  | 36792.84 | 48     | 93849.30  | 271792.04 |
| 13     | 34557.12  | 36825.87 | 47     | 93839.25  | 271548.26 |
| 14     | 34584.41  | 36858.91 | 46     | 93829.19  | 271304.87 |
| 15     | 34611.71  | 36891.95 | 45     | 93819.13  | 271061.86 |
| 16     | 34639.00  | 36925.00 | 44     | 93809.06  | 270819.23 |
| 17     | 34666.28  | 36958.06 | 43     | 93798.98  | 270576.99 |
| 18     | 34693.57  | 36991.13 | 42     | 93788.89  | 270335.13 |
| 19     | 34720.85  | 37024.20 | 41     | 93778.80  | 270093.64 |
| 20     | 34748.12  | 37057.28 | 40     | 93768.69  | 269852.54 |
| 21     | 34775.40  | 37090.37 | 39     | 93758.58  | 269611.81 |
| 22     | 34802.67  | 37123.46 | 38     | 93748.46  | 269371.47 |
| 23     | 34829.94  | 37156.56 | 37     | 93738.33  | 269131.49 |
| 24     | 34857.20  | 37189.67 | 36     | 93728.20  | 268891.90 |
| 25     | 34884.47  | 37222.78 | 35     | 93718.06  | 268652.67 |
| 26     | 34911.73  | 37255.90 | 34     | 93707.90  | 268413.83 |
| 27     | 34938.98  | 37289.03 | 33     | 93697.74  | 268175.35 |
| 28     | 34966.24  | 37322.17 | 32     | 93687.58  | 267937.25 |
| 29     | 34993.49  | 37355.32 | 31     | 93677.40  | 267699.51 |
| 30     | 35020.74  | 37388.47 | 30     | 93667.22  | 267462.15 |

N. 252.



| Minut. | 20. Grad. |          | Minut. | 69. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 35020.74  | 37388.47 | 30     | 93667.22  | 267462.15 |
| 31     | 35047.99  | 37421.63 | 29     | 93657.03  | 267225.16 |
| 32     | 35075.23  | 37454.79 | 28     | 93646.83  | 266988.53 |
| 33     | 35102.46  | 37487.97 | 27     | 93636.62  | 266752.27 |
| 34     | 35129.70  | 37521.15 | 26     | 93626.41  | 266516.38 |
| 35     | 35156.93  | 37554.34 | 25     | 93616.18  | 266280.85 |
| 36     | 35184.16  | 37587.53 | 24     | 93605.95  | 266045.69 |
| 37     | 35211.39  | 37620.73 | 23     | 93595.71  | 265810.89 |
| 38     | 35238.62  | 37653.94 | 22     | 93585.47  | 265576.45 |
| 39     | 35265.84  | 37687.16 | 21     | 93575.21  | 265342.38 |
| 40     | 35293.06  | 37720.38 | 20     | 93564.95  | 265108.67 |
| 41     | 35320.27  | 37753.61 | 19     | 93554.68  | 264875.31 |
| 42     | 35347.48  | 37786.85 | 18     | 93544.40  | 264642.32 |
| 43     | 35374.69  | 37820.10 | 17     | 93534.12  | 264409.69 |
| 44     | 35401.90  | 37853.35 | 16     | 93523.82  | 264177.41 |
| 45     | 35429.10  | 37886.61 | 15     | 93513.52  | 263945.49 |
| 46     | 35456.30  | 37919.88 | 14     | 93503.21  | 263713.92 |
| 47     | 35483.50  | 37953.16 | 13     | 93492.89  | 263482.71 |
| 48     | 35510.70  | 37986.44 | 12     | 93482.57  | 263251.86 |
| 49     | 35537.89  | 38019.73 | 11     | 93472.23  | 263021.36 |
| 50     | 35565.08  | 38053.03 | 10     | 93461.89  | 262791.21 |
| 51     | 35592.26  | 38086.33 | 9      | 93451.54  | 262561.41 |
| 52     | 35619.44  | 38119.64 | 8      | 93441.18  | 262331.96 |
| 53     | 35646.62  | 38152.96 | 7      | 93430.82  | 262102.86 |
| 54     | 35673.80  | 38186.29 | 6      | 93420.45  | 261874.11 |
| 55     | 35700.97  | 38219.62 | 5      | 93410.07  | 261645.71 |
| 56     | 35728.14  | 38252.96 | 4      | 93399.68  | 261417.66 |
| 57     | 35755.31  | 38286.31 | 3      | 93389.28  | 261189.95 |
| 58     | 35782.48  | 38319.67 | 2      | 93378.88  | 260962.59 |
| 59     | 35809.64  | 38353.03 | 1      | 93368.46  | 260735.58 |
| 60     | 35836.79  | 38386.40 | 0      | 93358.04  | 260508.91 |



| Minut. | 21. Grad. |          | Minut. | 68. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 35836.79  | 38386.40 | 60     | 93358.04  | 260508.91 |
| 1      | 35863.95  | 38419.78 | 59     | 93347.61  | 260282.58 |
| 2      | 35891.10  | 38453.17 | 58     | 93337.18  | 260056.59 |
| 3      | 35918.25  | 38486.56 | 57     | 93326.73  | 259830.95 |
| 4      | 35945.40  | 38519.96 | 56     | 93316.28  | 259605.64 |
| 5      | 35972.54  | 38553.37 | 55     | 93305.82  | 259380.68 |
| 6      | 35999.68  | 38586.79 | 54     | 93295.35  | 259156.06 |
| 7      | 36026.82  | 38620.21 | 53     | 93284.88  | 258931.77 |
| 8      | 36053.95  | 38653.64 | 52     | 93274.39  | 258707.82 |
| 9      | 36081.08  | 38687.08 | 51     | 93263.90  | 258484.21 |
| 10     | 36108.21  | 38720.53 | 50     | 93253.40  | 258260.94 |
| 11     | 36135.33  | 38753.98 | 49     | 93242.90  | 258038.00 |
| 12     | 36162.46  | 38787.44 | 48     | 93232.38  | 257815.39 |
| 13     | 36189.58  | 38820.91 | 47     | 93221.86  | 257593.12 |
| 14     | 36216.69  | 38854.39 | 46     | 93211.33  | 257371.18 |
| 15     | 36243.80  | 38887.87 | 45     | 93200.79  | 257149.57 |
| 16     | 36270.91  | 38921.36 | 44     | 93190.24  | 256928.30 |
| 17     | 36298.02  | 38954.86 | 43     | 93179.69  | 256707.35 |
| 18     | 36325.12  | 38988.37 | 42     | 93169.12  | 256486.74 |
| 19     | 36352.22  | 39021.89 | 41     | 93158.55  | 256266.45 |
| 20     | 36379.32  | 39055.41 | 40     | 93147.97  | 256046.49 |
| 21     | 36406.41  | 39088.94 | 39     | 93137.39  | 255826.86 |
| 22     | 36433.51  | 39122.48 | 38     | 93126.79  | 255607.56 |
| 23     | 36460.59  | 39156.02 | 37     | 93116.19  | 255388.58 |
| 24     | 36487.68  | 39189.57 | 36     | 93105.58  | 255169.92 |
| 25     | 36514.76  | 39223.13 | 35     | 93094.96  | 254951.60 |
| 26     | 36541.84  | 39256.70 | 34     | 93084.33  | 254733.59 |
| 27     | 36568.91  | 39290.28 | 33     | 93073.70  | 254515.91 |
| 28     | 36595.99  | 39323.86 | 32     | 93063.06  | 254298.55 |
| 29     | 36623.06  | 39357.45 | 31     | 93052.41  | 254081.51 |
| 30     | 36650.12  | 39391.05 | 30     | 93041.76  | 253864.79 |

N. 254.



| Minut. | 21. Grad. |          | Minut. | 68. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 36650.12  | 39391.05 | 30     | 93041.76  | 253864.79 |
| 31     | 36677.19  | 39424.66 | 29     | 93031.09  | 253648.39 |
| 32     | 36704.25  | 39458.27 | 28     | 93020.42  | 253432.31 |
| 33     | 36731.30  | 39491.89 | 27     | 93009.74  | 253216.55 |
| 34     | 36758.36  | 39525.52 | 26     | 92999.05  | 253001.11 |
| 35     | 36785.41  | 39559.16 | 25     | 92988.35  | 252785.98 |
| 36     | 36812.46  | 39592.80 | 24     | 92977.65  | 252571.17 |
| 37     | 36839.50  | 39626.45 | 23     | 92966.94  | 252356.67 |
| 38     | 36866.54  | 39660.11 | 22     | 92956.22  | 252142.49 |
| 39     | 36893.58  | 39693.78 | 21     | 92945.49  | 251928.63 |
| 40     | 36920.61  | 39727.46 | 20     | 92934.75  | 251715.07 |
| 41     | 36947.65  | 39761.14 | 19     | 92924.01  | 251501.83 |
| 42     | 36974.68  | 39794.83 | 18     | 92913.26  | 251288.90 |
| 43     | 37001.70  | 39828.53 | 17     | 92902.50  | 251076.29 |
| 44     | 37028.72  | 39862.24 | 16     | 92891.73  | 250863.98 |
| 45     | 37055.74  | 39895.96 | 15     | 92880.95  | 250651.98 |
| 46     | 37082.76  | 39929.68 | 14     | 92870.17  | 250440.29 |
| 47     | 37109.77  | 39963.41 | 13     | 92859.38  | 250228.91 |
| 48     | 37136.78  | 39997.15 | 12     | 92848.58  | 250017.84 |
| 49     | 37163.79  | 40030.89 | 11     | 92837.78  | 249807.07 |
| 50     | 37190.79  | 40064.65 | 10     | 92826.96  | 249596.61 |
| 51     | 37217.80  | 40098.41 | 9      | 92816.14  | 249386.45 |
| 52     | 37244.79  | 40132.18 | 8      | 92805.31  | 249176.60 |
| 53     | 37271.79  | 40165.96 | 7      | 92794.47  | 248967.06 |
| 54     | 37298.78  | 40199.75 | 6      | 92783.62  | 248757.81 |
| 55     | 37325.77  | 40233.54 | 5      | 92772.77  | 248548.87 |
| 56     | 37352.75  | 40267.34 | 4      | 92761.91  | 248340.23 |
| 57     | 37379.73  | 40301.15 | 3      | 92751.04  | 248131.90 |
| 58     | 37406.71  | 40334.97 | 2      | 92740.16  | 247923.86 |
| 59     | 37433.69  | 40368.79 | 1      | 92729.28  | 247716.12 |
| 60     | 37460.66  | 40402.62 | 0      | 92718.39  | 247508.69 |

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 1521° 0' 152  
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| Minut. | 22. Grad. |          | Minut. | 67. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 37460.66  | 40402.62 | 60     | 92718.39  | 247508.69 |
| 1      | 37487.63  | 40436.46 | 59     | 92707.49  | 247301.51 |
| 2      | 37514.59  | 40470.31 | 58     | 92696.58  | 247094.70 |
| 3      | 37541.56  | 40504.17 | 57     | 92685.66  | 246888.16 |
| 4      | 37568.52  | 40538.04 | 56     | 92674.73  | 246681.91 |
| 5      | 37595.47  | 40571.91 | 55     | 92663.80  | 246475.96 |
| 6      | 37622.43  | 40605.79 | 54     | 92652.86  | 246270.30 |
| 7      | 37649.38  | 40639.68 | 53     | 92641.91  | 246064.94 |
| 8      | 37676.32  | 40673.58 | 52     | 92630.96  | 245859.87 |
| 9      | 37703.27  | 40707.48 | 51     | 92620.00  | 245655.09 |
| 10     | 37730.21  | 40741.39 | 50     | 92609.03  | 245450.61 |
| 11     | 37757.14  | 40775.31 | 49     | 92598.05  | 245246.42 |
| 12     | 37784.08  | 40809.24 | 48     | 92587.06  | 245042.52 |
| 13     | 37811.01  | 40843.18 | 47     | 92576.06  | 244838.91 |
| 14     | 37837.94  | 40877.13 | 46     | 92565.06  | 244635.59 |
| 15     | 37864.86  | 40911.08 | 45     | 92554.05  | 244432.56 |
| 16     | 37891.78  | 40945.04 | 44     | 92543.03  | 244229.82 |
| 17     | 37918.70  | 40979.01 | 43     | 92532.01  | 244027.36 |
| 18     | 37945.62  | 41012.99 | 42     | 92520.97  | 243825.19 |
| 19     | 37972.53  | 41046.97 | 41     | 92509.93  | 243623.31 |
| 20     | 37999.44  | 41080.97 | 40     | 92498.88  | 243421.72 |
| 21     | 38026.34  | 41114.97 | 39     | 92487.82  | 243220.41 |
| 22     | 38053.24  | 41148.98 | 38     | 92476.76  | 243019.38 |
| 23     | 38080.14  | 41183.00 | 37     | 92465.68  | 242818.64 |
| 24     | 38107.04  | 41217.03 | 36     | 92454.60  | 242618.19 |
| 25     | 38133.93  | 41251.06 | 35     | 92443.51  | 242418.01 |
| 26     | 38160.82  | 41285.10 | 34     | 92432.42  | 242218.12 |
| 27     | 38187.70  | 41319.15 | 33     | 92421.31  | 242018.51 |
| 28     | 38214.59  | 41353.21 | 32     | 92410.20  | 241819.18 |
| 29     | 38241.47  | 41387.28 | 31     | 92399.08  | 241620.13 |
| 30     | 38268.34  | 41421.36 | 30     | 92387.95  | 241421.36 |

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| Minut. | 22. Grad. |          | Minut. | 67. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 38268.34  | 41421.36 | 30     | 92387.95  | 241421.36 |
| 31     | 38295.22  | 41455.44 | 29     | 92376.82  | 241222.86 |
| 32     | 38322.09  | 41489.53 | 28     | 92365.67  | 241024.65 |
| 33     | 38348.95  | 41523.63 | 27     | 92354.52  | 240826.72 |
| 34     | 38375.82  | 41557.74 | 26     | 92343.36  | 240629.06 |
| 35     | 38402.68  | 41591.86 | 25     | 92332.20  | 240431.68 |
| 36     | 38429.53  | 41625.99 | 24     | 92321.02  | 240234.57 |
| 37     | 38456.39  | 41660.12 | 23     | 92309.84  | 240037.74 |
| 38     | 38483.24  | 41694.26 | 22     | 92298.65  | 239841.18 |
| 39     | 38510.08  | 41728.41 | 21     | 92287.45  | 239644.90 |
| 40     | 38536.93  | 41762.57 | 20     | 92276.24  | 239448.89 |
| 41     | 38563.77  | 41796.74 | 19     | 92265.03  | 239253.16 |
| 42     | 38590.60  | 41830.91 | 18     | 92253.81  | 239057.69 |
| 43     | 38617.44  | 41865.09 | 17     | 92242.58  | 238862.50 |
| 44     | 38644.27  | 41899.28 | 16     | 92231.34  | 238667.58 |
| 45     | 38671.10  | 41933.48 | 15     | 92220.10  | 238472.93 |
| 46     | 38697.92  | 41967.69 | 14     | 92208.84  | 238278.55 |
| 47     | 38724.74  | 42001.91 | 13     | 92197.58  | 238084.44 |
| 48     | 38751.56  | 42036.13 | 12     | 92186.31  | 237890.60 |
| 49     | 38778.37  | 42070.36 | 11     | 92175.04  | 237697.03 |
| 50     | 38805.18  | 42104.60 | 10     | 92163.75  | 237503.72 |
| 51     | 38831.99  | 42138.85 | 9      | 92152.46  | 237310.68 |
| 52     | 38858.80  | 42173.11 | 8      | 92141.16  | 237117.91 |
| 53     | 38885.60  | 42207.38 | 7      | 92129.86  | 236925.40 |
| 54     | 38912.39  | 42241.66 | 6      | 92118.54  | 236733.16 |
| 55     | 38939.19  | 42275.94 | 5      | 92107.22  | 236541.18 |
| 56     | 38965.98  | 42310.23 | 4      | 92095.89  | 236349.46 |
| 57     | 38992.77  | 42344.53 | 3      | 92084.55  | 236158.01 |
| 58     | 39019.55  | 42378.84 | 2      | 92073.20  | 235966.83 |
| 59     | 39046.33  | 42413.16 | 1      | 92061.85  | 235775.90 |
| 60     | 39073.11  | 42447.49 | 0      | 92050.49  | 235585.24 |

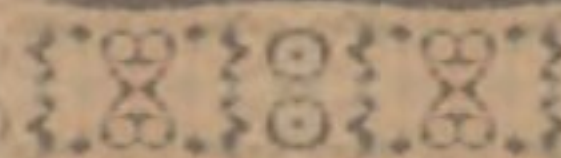


| Minut. | 23. Grad. |          | Minut. | 66. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 39073.11  | 42447.49 | 60     | 92050.49  | 235585.24 |
| 1      | 39099.89  | 42481.82 | 59     | 92039.12  | 235394.83 |
| 2      | 39126.66  | 42516.16 | 58     | 92027.74  | 235204.69 |
| 3      | 39153.43  | 42550.51 | 57     | 92016.35  | 235014.81 |
| 4      | 39180.19  | 42584.87 | 56     | 92004.96  | 234825.19 |
| 5      | 39206.95  | 42619.24 | 55     | 91993.56  | 234635.82 |
| 6      | 39233.71  | 42653.62 | 54     | 91982.15  | 234446.72 |
| 7      | 39260.47  | 42688.00 | 53     | 91970.73  | 234257.87 |
| 8      | 39287.22  | 42722.39 | 52     | 91959.31  | 234069.28 |
| 9      | 39313.97  | 42756.79 | 51     | 91947.88  | 233880.95 |
| 10     | 39340.71  | 42791.20 | 50     | 91936.44  | 233692.87 |
| 11     | 39367.45  | 42825.62 | 49     | 91924.99  | 233505.06 |
| 12     | 39394.19  | 42860.05 | 48     | 91913.53  | 233317.48 |
| 13     | 39420.93  | 42894.49 | 47     | 91902.07  | 233130.17 |
| 14     | 39447.66  | 42928.94 | 46     | 91890.60  | 232943.11 |
| 15     | 39474.39  | 42963.39 | 45     | 91879.12  | 232756.30 |
| 16     | 39501.11  | 42997.85 | 44     | 91867.63  | 232569.75 |
| 17     | 39527.83  | 43032.32 | 43     | 91856.14  | 232383.45 |
| 18     | 39554.55  | 43066.80 | 42     | 91844.64  | 232197.40 |
| 19     | 39581.27  | 43101.29 | 41     | 91833.13  | 232011.60 |
| 20     | 39607.98  | 43135.79 | 40     | 91821.61  | 231826.06 |
| 21     | 39634.68  | 43170.30 | 39     | 91810.09  | 231640.76 |
| 22     | 39661.39  | 43204.81 | 38     | 91798.55  | 231455.71 |
| 23     | 39688.09  | 43239.33 | 37     | 91787.01  | 231270.91 |
| 24     | 39714.79  | 43273.86 | 36     | 91775.46  | 231086.36 |
| 25     | 39741.48  | 43308.40 | 35     | 91763.91  | 230902.06 |
| 26     | 39768.17  | 43342.95 | 34     | 91752.34  | 230718.01 |
| 27     | 39794.86  | 43377.51 | 33     | 91740.77  | 230534.20 |
| 28     | 39821.55  | 43412.08 | 32     | 91729.19  | 230350.64 |
| 29     | 39848.23  | 43446.66 | 31     | 91717.60  | 230167.32 |
| 30     | 39874.91  | 43481.24 | 30     | 91706.01  | 229984.25 |



| Minut. | 23. Grad. |          | Minut. | 66. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 39874.91  | 43481.24 | 30     | 91706.01  | 229984.25 |
| 31     | 39901.58  | 43515.83 | 29     | 91694.40  | 229801.43 |
| 32     | 39928.25  | 43550.43 | 28     | 91682.79  | 229618.85 |
| 33     | 39954.92  | 43585.04 | 27     | 91671.18  | 229436.51 |
| 34     | 39981.58  | 43619.66 | 26     | 91659.55  | 229254.42 |
| 35     | 40008.25  | 43654.29 | 25     | 91647.91  | 229072.57 |
| 36     | 40034.90  | 43688.93 | 24     | 91636.27  | 228890.96 |
| 37     | 40061.56  | 43723.58 | 23     | 91624.62  | 228709.59 |
| 38     | 40088.21  | 43758.23 | 22     | 91612.96  | 228628.46 |
| 39     | 40114.86  | 43792.89 | 21     | 91601.30  | 228347.58 |
| 40     | 40141.50  | 43827.56 | 20     | 91589.63  | 228166.93 |
| 41     | 40168.14  | 43862.24 | 19     | 91577.95  | 227986.53 |
| 42     | 40194.78  | 43896.93 | 18     | 91566.26  | 227806.36 |
| 43     | 40221.41  | 43931.63 | 17     | 91554.56  | 227626.43 |
| 44     | 40248.04  | 43966.34 | 16     | 91542.86  | 227446.74 |
| 45     | 40274.67  | 44001.06 | 15     | 91531.15  | 227267.29 |
| 46     | 40301.29  | 44035.78 | 14     | 91519.43  | 227088.07 |
| 47     | 40327.91  | 44070.51 | 13     | 91507.70  | 226909.09 |
| 48     | 40354.53  | 44105.25 | 12     | 91495.97  | 226730.35 |
| 49     | 40381.14  | 44140.00 | 11     | 91484.22  | 226551.84 |
| 50     | 40407.75  | 44174.76 | 10     | 91472.47  | 226373.57 |
| 51     | 40434.36  | 44209.53 | 9      | 91460.72  | 226195.53 |
| 52     | 40460.96  | 44244.31 | 8      | 91448.95  | 226017.73 |
| 53     | 40487.56  | 44279.10 | 7      | 91437.18  | 225840.16 |
| 54     | 40514.16  | 44313.90 | 6      | 91425.40  | 225662.83 |
| 55     | 40540.75  | 44348.71 | 5      | 91413.61  | 225485.72 |
| 56     | 40567.34  | 44383.53 | 4      | 91401.81  | 225308.85 |
| 57     | 40593.93  | 44418.35 | 3      | 91390.01  | 225132.21 |
| 58     | 40620.51  | 44453.18 | 2      | 91378.19  | 224955.80 |
| 59     | 40647.09  | 44488.02 | 1      | 91366.37  | 224779.62 |
| 60     | 40673.66  | 44522.87 | 0      | 91354.55  | 224603.68 |

N. 259.





| Minut. | 24. Grad. |          | Minut. | 65. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 40673.66  | 44522.87 | 60     | 91354.55  | 224603.68 |
| 1      | 40700.23  | 44557.73 | 59     | 91342.71  | 224427.96 |
| 2      | 40726.81  | 44592.60 | 58     | 91330.87  | 224252.47 |
| 3      | 40753.37  | 44627.48 | 57     | 91319.02  | 224077.21 |
| 4      | 40779.93  | 44662.37 | 56     | 91307.16  | 223902.18 |
| 5      | 40806.49  | 44697.27 | 55     | 91295.29  | 223727.38 |
| 6      | 40833.05  | 44732.17 | 54     | 91283.42  | 223552.80 |
| 7      | 40859.60  | 44767.08 | 53     | 91271.54  | 223378.45 |
| 8      | 40886.15  | 44802.00 | 52     | 91259.65  | 223204.33 |
| 9      | 40912.69  | 44836.93 | 51     | 91247.75  | 223030.43 |
| 10     | 40939.23  | 44871.87 | 50     | 91235.84  | 222856.76 |
| 11     | 40965.77  | 44906.82 | 49     | 91223.93  | 222683.31 |
| 12     | 40992.30  | 44941.78 | 48     | 91212.01  | 222510.09 |
| 13     | 41018.83  | 44976.75 | 47     | 91200.08  | 222337.09 |
| 14     | 41045.36  | 45011.73 | 46     | 91188.14  | 222164.32 |
| 15     | 41071.87  | 45046.72 | 45     | 91176.20  | 221991.77 |
| 16     | 41098.41  | 45081.72 | 44     | 91164.25  | 221819.44 |
| 17     | 41124.92  | 45116.73 | 43     | 91152.29  | 221647.33 |
| 18     | 41151.44  | 45151.74 | 42     | 91140.32  | 221475.45 |
| 19     | 41177.95  | 45186.76 | 41     | 91128.35  | 221303.79 |
| 20     | 41204.45  | 45221.79 | 40     | 91116.37  | 221132.34 |
| 21     | 41230.96  | 45256.83 | 39     | 91104.38  | 220961.12 |
| 22     | 41257.45  | 45291.88 | 38     | 91092.38  | 220790.12 |
| 23     | 41283.95  | 45326.94 | 37     | 91080.38  | 220619.34 |
| 24     | 41310.44  | 45362.01 | 36     | 91068.37  | 220448.78 |
| 25     | 41336.93  | 45397.09 | 35     | 91056.35  | 220278.43 |
| 26     | 41363.42  | 45432.18 | 34     | 91044.32  | 220108.31 |
| 27     | 41389.90  | 45467.28 | 33     | 91032.28  | 219938.40 |
| 28     | 41416.38  | 45502.39 | 32     | 91020.24  | 219768.71 |
| 29     | 41442.85  | 45537.51 | 31     | 91008.19  | 219599.23 |
| 30     | 41469.32  | 45572.64 | 30     | 90996.13  | 219429.97 |



| Minut. | 24. Grad. |          | Minut. | 65. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 41469.32  | 45572.64 | 30     | 90996.13  | 219429.97 |
| 31     | 41495.79  | 45607.77 | 29     | 90984.06  | 219260.93 |
| 32     | 41522.26  | 45642.91 | 28     | 90971.99  | 219092.10 |
| 33     | 41548.72  | 45678.06 | 27     | 90959.90  | 218923.49 |
| 34     | 41575.17  | 45713.22 | 26     | 90947.81  | 218755.10 |
| 35     | 41601.63  | 45748.39 | 25     | 90935.71  | 218586.91 |
| 36     | 41628.08  | 45783.57 | 24     | 90923.61  | 218418.94 |
| 37     | 41654.53  | 45818.76 | 23     | 90911.50  | 218251.19 |
| 38     | 41680.97  | 45853.96 | 22     | 90899.38  | 218083.64 |
| 39     | 41707.41  | 45889.17 | 21     | 90887.25  | 217916.31 |
| 40     | 41733.85  | 45924.39 | 20     | 90875.11  | 217749.20 |
| 41     | 41760.28  | 45959.62 | 19     | 90862.97  | 217582.29 |
| 42     | 41786.71  | 45994.86 | 18     | 90850.82  | 217415.59 |
| 43     | 41813.13  | 46030.11 | 17     | 90838.66  | 217249.11 |
| 44     | 41839.55  | 46065.37 | 16     | 90826.49  | 217082.83 |
| 45     | 41865.97  | 46100.64 | 15     | 90814.32  | 216916.77 |
| 46     | 41892.39  | 46135.91 | 14     | 90802.14  | 216750.91 |
| 47     | 41918.80  | 46171.19 | 13     | 90789.95  | 216585.27 |
| 48     | 41945.21  | 46206.48 | 12     | 90777.75  | 216419.83 |
| 49     | 41971.61  | 46241.78 | 11     | 90765.54  | 216254.60 |
| 50     | 41998.01  | 46277.09 | 10     | 90753.33  | 216089.58 |
| 51     | 42024.41  | 46312.42 | 9      | 90741.11  | 215924.76 |
| 52     | 42050.80  | 46347.76 | 8      | 90728.88  | 215760.15 |
| 53     | 42077.19  | 46383.11 | 7      | 90716.64  | 215595.75 |
| 54     | 42103.58  | 46418.46 | 6      | 90704.40  | 215431.56 |
| 55     | 42129.96  | 46453.82 | 5      | 90692.15  | 215267.57 |
| 56     | 42156.34  | 46489.19 | 4      | 90679.89  | 215103.78 |
| 57     | 42182.72  | 46524.57 | 3      | 90667.62  | 214940.20 |
| 58     | 42209.09  | 46559.96 | 2      | 90655.35  | 214776.83 |
| 59     | 42235.46  | 46595.36 | 1      | 90643.07  | 214613.66 |
| 60     | 42261.83  | 46630.77 | 0      | 90630.78  | 214450.69 |



| Minut. | 25. Grad. |          | Minut. | 64. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 42261.83  | 46630.77 | 60     | 90630.78  | 214450.69 |
| 1      | 42288.19  | 46666.19 | 59     | 90618.48  | 214287.93 |
| 2      | 42314.55  | 46701.62 | 58     | 90606.18  | 214125.37 |
| 3      | 42340.90  | 46737.06 | 57     | 90593.86  | 213963.01 |
| 4      | 42367.25  | 46772.51 | 56     | 90581.54  | 213800.85 |
| 5      | 42393.60  | 46807.97 | 55     | 90569.21  | 213638.89 |
| 6      | 42419.94  | 46843.43 | 54     | 90556.88  | 213477.14 |
| 7      | 42446.28  | 46878.90 | 53     | 90544.54  | 213315.59 |
| 8      | 42472.62  | 46914.38 | 52     | 90532.19  | 213154.23 |
| 9      | 42498.95  | 46949.88 | 51     | 90519.83  | 212993.08 |
| 10     | 42525.28  | 46985.39 | 50     | 90507.46  | 212832.13 |
| 11     | 42551.61  | 47020.90 | 49     | 90495.09  | 212671.37 |
| 12     | 42577.93  | 47056.43 | 48     | 90482.71  | 212510.82 |
| 13     | 42604.25  | 47091.96 | 47     | 90470.32  | 212350.46 |
| 14     | 42630.56  | 47127.51 | 46     | 90457.92  | 212190.30 |
| 15     | 42656.87  | 47163.06 | 45     | 90445.51  | 212030.34 |
| 16     | 42683.18  | 47198.63 | 44     | 90433.10  | 211870.57 |
| 17     | 42709.49  | 47234.20 | 43     | 90420.68  | 211711.01 |
| 18     | 42735.79  | 47269.78 | 42     | 90408.25  | 211551.64 |
| 19     | 42762.09  | 47305.38 | 41     | 90395.82  | 211392.46 |
| 20     | 42788.38  | 47340.98 | 40     | 90383.38  | 211233.48 |
| 21     | 42814.67  | 47376.59 | 39     | 90370.93  | 211074.70 |
| 22     | 42840.95  | 47412.22 | 38     | 90358.47  | 210916.11 |
| 23     | 42867.23  | 47447.85 | 37     | 90346.00  | 210755.71 |
| 24     | 42893.51  | 47483.49 | 36     | 90333.53  | 210599.51 |
| 25     | 42919.79  | 47519.14 | 35     | 90321.05  | 210441.50 |
| 26     | 42946.06  | 47554.81 | 34     | 90308.56  | 210283.69 |
| 27     | 42972.33  | 47590.48 | 33     | 90296.06  | 210126.07 |
| 28     | 42998.59  | 47626.16 | 32     | 90283.56  | 209968.64 |
| 29     | 43024.85  | 47661.85 | 31     | 90271.05  | 209811.40 |
| 30     | 43051.11  | 47697.55 | 30     | 90258.53  | 209654.36 |

N. 262.



| Minut. | 25. Grad. |          | Minut. | 64. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 43051.11  | 47697.55 | 30     | 90258.53  | 209654.36 |
| 31     | 43077.36  | 47733.26 | 29     | 90246.00  | 209497.51 |
| 32     | 43103.61  | 47768.99 | 28     | 90233.47  | 209340.84 |
| 33     | 43129.86  | 47804.72 | 27     | 90220.93  | 209184.37 |
| 34     | 43156.10  | 47840.46 | 26     | 90208.38  | 209028.09 |
| 35     | 43182.34  | 47876.21 | 25     | 90195.82  | 208872.00 |
| 36     | 43208.57  | 47911.97 | 24     | 90183.25  | 208716.10 |
| 37     | 43234.81  | 47947.74 | 23     | 90170.68  | 208560.39 |
| 38     | 43261.03  | 47983.52 | 22     | 90158.10  | 208404.86 |
| 39     | 43287.26  | 48019.32 | 21     | 90145.51  | 208249.53 |
| 40     | 43313.48  | 48055.12 | 20     | 90132.92  | 208094.38 |
| 41     | 43339.70  | 48090.93 | 19     | 90120.31  | 207939.42 |
| 42     | 43365.91  | 48126.75 | 18     | 90107.70  | 207784.65 |
| 43     | 43392.12  | 48162.58 | 17     | 90095.08  | 207630.07 |
| 44     | 43418.32  | 48198.42 | 16     | 90082.45  | 207475.67 |
| 45     | 43444.53  | 48234.27 | 15     | 90069.82  | 207321.46 |
| 46     | 43470.72  | 48270.14 | 14     | 90057.18  | 207167.43 |
| 47     | 43496.92  | 48306.01 | 13     | 90044.53  | 207013.59 |
| 48     | 43523.11  | 48341.89 | 12     | 90031.87  | 206859.93 |
| 49     | 43549.30  | 48377.78 | 11     | 90019.21  | 206706.46 |
| 50     | 43575.48  | 48413.68 | 10     | 90006.54  | 206553.18 |
| 51     | 43601.66  | 48449.59 | 9      | 89993.86  | 206400.08 |
| 52     | 43627.84  | 48485.52 | 8      | 89981.17  | 206247.16 |
| 53     | 43654.01  | 48521.45 | 7      | 89968.48  | 206094.42 |
| 54     | 43680.18  | 48557.39 | 6      | 89955.78  | 205941.87 |
| 55     | 43706.34  | 48593.34 | 5      | 89943.07  | 205789.50 |
| 56     | 43732.51  | 48629.31 | 4      | 89930.35  | 205637.32 |
| 57     | 43758.66  | 48665.28 | 3      | 89917.63  | 205485.31 |
| 58     | 43784.82  | 48701.26 | 2      | 89904.89  | 205333.49 |
| 59     | 43810.97  | 48737.26 | 1      | 89892.15  | 205181.84 |
| 60     | 43837.11  | 48773.26 | 0      | 89879.40  | 205030.38 |



| Minut. | 26. Grad. |          | Minut. | 63. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 43837.11  | 48773.26 | 60     | 89879.40  | 205030.38 |
| 1      | 43863.26  | 48809.27 | 59     | 89866.65  | 204879.10 |
| 2      | 43889.40  | 48845.30 | 58     | 89853.89  | 204728.00 |
| 3      | 43915.53  | 48881.33 | 57     | 89841.12  | 204577.08 |
| 4      | 43941.66  | 48917.37 | 56     | 89828.34  | 204426.34 |
| 5      | 43967.79  | 48953.43 | 55     | 89815.55  | 204275.78 |
| 6      | 43993.92  | 48989.49 | 54     | 89802.76  | 204125.40 |
| 7      | 44020.04  | 49025.57 | 53     | 89789.96  | 203975.19 |
| 8      | 44046.15  | 49061.66 | 52     | 89777.15  | 203825.17 |
| 9      | 44072.27  | 49097.75 | 51     | 89764.33  | 203675.32 |
| 10     | 44098.38  | 49133.86 | 50     | 89751.51  | 203525.65 |
| 11     | 44124.48  | 49169.97 | 49     | 89738.68  | 203376.15 |
| 12     | 44150.58  | 49206.10 | 48     | 89725.84  | 203226.83 |
| 13     | 44176.68  | 49242.24 | 47     | 89712.99  | 203077.69 |
| 14     | 44202.78  | 49278.38 | 46     | 89700.14  | 202928.73 |
| 15     | 44228.87  | 49314.54 | 45     | 89687.27  | 202779.94 |
| 16     | 44254.96  | 49350.71 | 44     | 89674.40  | 202631.33 |
| 17     | 44281.04  | 49386.89 | 43     | 89661.52  | 202482.89 |
| 18     | 44307.12  | 49423.02 | 42     | 89648.64  | 202334.62 |
| 19     | 44333.19  | 49459.28 | 41     | 89635.75  | 202186.53 |
| 20     | 44359.27  | 49495.49 | 40     | 89622.85  | 202038.62 |
| 21     | 44385.34  | 49531.71 | 39     | 89609.94  | 201890.88 |
| 22     | 44411.40  | 49567.94 | 38     | 89597.03  | 201743.31 |
| 23     | 44437.46  | 49604.18 | 37     | 89584.11  | 201595.92 |
| 24     | 44463.52  | 49640.43 | 36     | 89571.18  | 201448.69 |
| 25     | 44489.57  | 49676.69 | 35     | 89558.24  | 201301.64 |
| 26     | 44515.62  | 49712.97 | 34     | 89545.29  | 201154.77 |
| 27     | 44541.67  | 49749.25 | 33     | 89532.34  | 201008.06 |
| 28     | 44567.71  | 49785.54 | 32     | 89519.38  | 200861.53 |
| 29     | 44593.75  | 49821.85 | 31     | 89506.41  | 200715.16 |
| 30     | 44619.78  | 49858.16 | 30     | 89493.44  | 200568.97 |



| Minut. | 26. Grad. |          | Minut. | 63. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 44619.78  | 49858.16 | 30     | 89493.44  | 200568.97 |
| 31     | 44645.81  | 49894.49 | 29     | 89480.45  | 200422.95 |
| 32     | 44671.84  | 49930.82 | 28     | 89467.46  | 200277.10 |
| 33     | 44697.86  | 49967.17 | 27     | 89454.46  | 200131.42 |
| 34     | 44723.88  | 50003.52 | 26     | 89441.46  | 199985.90 |
| 35     | 44749.90  | 50039.89 | 25     | 89428.44  | 199840.56 |
| 36     | 44775.91  | 50076.27 | 24     | 89415.42  | 199695.39 |
| 37     | 44801.92  | 50112.66 | 23     | 89402.39  | 199550.38 |
| 38     | 44827.92  | 50149.06 | 22     | 89389.36  | 199405.54 |
| 39     | 44853.92  | 50185.47 | 21     | 89376.32  | 199260.87 |
| 40     | 44879.92  | 50221.89 | 20     | 89363.26  | 199116.37 |
| 41     | 44905.91  | 50258.32 | 19     | 89350.21  | 198972.04 |
| 42     | 44931.90  | 50294.76 | 18     | 89337.14  | 198827.87 |
| 43     | 44957.89  | 50331.21 | 17     | 89324.06  | 198683.87 |
| 44     | 44983.87  | 50367.67 | 16     | 89310.98  | 198540.03 |
| 45     | 45009.85  | 50404.15 | 15     | 89297.88  | 198396.36 |
| 46     | 45035.82  | 50440.63 | 14     | 89284.80  | 198252.86 |
| 47     | 45061.79  | 50477.13 | 13     | 89271.69  | 198109.52 |
| 48     | 45087.76  | 50513.63 | 12     | 89258.58  | 197966.35 |
| 49     | 45113.72  | 50550.15 | 11     | 89245.46  | 197823.34 |
| 50     | 45139.68  | 50586.68 | 10     | 89232.34  | 197680.50 |
| 51     | 45165.63  | 50623.22 | 9      | 89219.20  | 197537.82 |
| 52     | 45191.58  | 50659.77 | 8      | 89206.06  | 197395.31 |
| 53     | 45217.53  | 50696.33 | 7      | 89192.91  | 197252.96 |
| 54     | 45243.47  | 50732.90 | 6      | 89179.75  | 197110.77 |
| 55     | 45269.41  | 50769.48 | 5      | 89166.59  | 196968.74 |
| 56     | 45295.35  | 50806.07 | 4      | 89153.42  | 196826.88 |
| 57     | 45321.28  | 50842.67 | 3      | 89140.24  | 196685.18 |
| 58     | 45347.21  | 50879.28 | 2      | 89127.05  | 196543.64 |
| 59     | 45373.13  | 50915.91 | 1      | 89113.85  | 196402.27 |
| 60     | 45399.05  | 50952.54 | 0      | 89100.65  | 196261.05 |



| Minut. | 27. Grad. |          | Minut. | 62. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 45399.05  | 50952.54 | 60     | 89100.65  | 196261.05 |
| 1      | 45424.97  | 50989.19 | 59     | 89087.44  | 196120.00 |
| 2      | 45450.88  | 51025.85 | 58     | 89074.22  | 195979.10 |
| 3      | 45476.79  | 51062.52 | 57     | 89061.00  | 195838.37 |
| 4      | 45502.69  | 51099.19 | 56     | 89047.77  | 195697.80 |
| 5      | 45528.59  | 51135.88 | 55     | 89034.53  | 195557.39 |
| 6      | 45554.49  | 51172.59 | 54     | 89021.28  | 195417.13 |
| 7      | 45580.38  | 51209.30 | 53     | 89008.02  | 195277.04 |
| 8      | 45606.27  | 51246.02 | 52     | 88994.76  | 195137.11 |
| 9      | 45632.16  | 51282.75 | 51     | 88981.49  | 194997.33 |
| 10     | 45658.04  | 51319.50 | 50     | 88968.21  | 194857.71 |
| 11     | 45683.92  | 51356.25 | 49     | 88954.93  | 194718.26 |
| 12     | 45709.79  | 51393.02 | 48     | 88941.64  | 194578.96 |
| 13     | 45735.66  | 51429.80 | 47     | 88928.34  | 194439.81 |
| 14     | 45761.53  | 51466.58 | 46     | 88915.03  | 194300.83 |
| 15     | 45787.39  | 51503.38 | 45     | 88901.71  | 194162.00 |
| 16     | 45813.25  | 51540.19 | 44     | 88888.39  | 194023.33 |
| 17     | 45839.10  | 51577.02 | 43     | 88875.06  | 193884.81 |
| 18     | 45864.95  | 51613.85 | 42     | 88861.72  | 193746.45 |
| 19     | 45890.80  | 51650.69 | 41     | 88848.37  | 193608.25 |
| 20     | 45916.64  | 51687.55 | 40     | 88835.02  | 193470.20 |
| 21     | 45942.48  | 51724.41 | 39     | 88821.66  | 193332.31 |
| 22     | 45968.32  | 51761.29 | 38     | 88808.30  | 193194.57 |
| 23     | 45994.15  | 51798.18 | 37     | 88794.92  | 193056.98 |
| 24     | 46019.98  | 51835.08 | 36     | 88781.54  | 192919.56 |
| 25     | 46045.80  | 51871.99 | 35     | 88768.15  | 192782.28 |
| 26     | 46071.62  | 51908.91 | 34     | 88754.75  | 192645.16 |
| 27     | 46097.44  | 51945.84 | 33     | 88741.34  | 192508.19 |
| 28     | 46123.25  | 51982.78 | 32     | 88727.93  | 192371.38 |
| 29     | 46149.06  | 52019.74 | 31     | 88714.51  | 192234.72 |
| 30     | 46174.86  | 52056.70 | 30     | 88701.08  | 192098.21 |

N. 266.



| Minut. | 27. Grad. |          | Minut. | 62. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 46174.86  | 52056.70 | 30     | 88701.08  | 192098.21 |
| 31     | 46200.66  | 52093.68 | 29     | 88687.64  | 191961.86 |
| 32     | 46226.46  | 52130.67 | 28     | 88674.20  | 191825.65 |
| 33     | 46252.25  | 52167.67 | 27     | 88660.75  | 191689.60 |
| 34     | 46278.04  | 52204.68 | 26     | 88647.30  | 191553.70 |
| 35     | 46303.82  | 52241.70 | 25     | 88633.83  | 191417.95 |
| 36     | 46329.60  | 52278.74 | 24     | 88620.36  | 191282.36 |
| 37     | 46355.38  | 52315.78 | 23     | 88606.88  | 191146.91 |
| 38     | 46381.15  | 52352.84 | 22     | 88593.39  | 191011.62 |
| 39     | 46406.92  | 52389.90 | 21     | 88579.89  | 190876.47 |
| 40     | 46432.69  | 52426.98 | 20     | 88566.39  | 190741.47 |
| 41     | 46458.45  | 52464.07 | 19     | 88552.88  | 190606.63 |
| 42     | 46484.20  | 52501.17 | 18     | 88539.36  | 190471.93 |
| 43     | 46509.96  | 52538.29 | 17     | 88525.83  | 190337.38 |
| 44     | 46535.71  | 52575.41 | 16     | 88512.30  | 190202.99 |
| 45     | 46561.45  | 52612.54 | 15     | 88498.76  | 190068.74 |
| 46     | 46587.19  | 52649.69 | 14     | 88485.22  | 189934.64 |
| 47     | 46612.93  | 52686.85 | 13     | 88471.66  | 189800.68 |
| 48     | 46638.66  | 52724.02 | 12     | 88458.10  | 189666.88 |
| 49     | 46664.39  | 52761.20 | 11     | 88444.53  | 189533.22 |
| 50     | 46690.12  | 52798.39 | 10     | 88430.95  | 189399.71 |
| 51     | 46715.84  | 52835.59 | 9      | 88417.36  | 189266.34 |
| 52     | 46741.56  | 52872.81 | 8      | 88403.77  | 189133.13 |
| 53     | 46767.27  | 52910.04 | 7      | 88390.17  | 189000.06 |
| 54     | 46792.98  | 52947.27 | 6      | 88376.56  | 188867.13 |
| 55     | 46818.69  | 52984.52 | 5      | 88362.95  | 188734.36 |
| 56     | 46844.39  | 53021.78 | 4      | 88349.32  | 188601.72 |
| 57     | 46870.09  | 53059.06 | 3      | 88335.69  | 188469.24 |
| 58     | 46895.78  | 53096.34 | 2      | 88322.06  | 188336.90 |
| 59     | 46921.47  | 53133.64 | 1      | 88308.41  | 188204.70 |
| 60     | 46947.16  | 53270.94 | 0      | 88294.76  | 188072.65 |



| Minut. | 28. Grad. |          | Minut. | 61. Grad |           |
|--------|-----------|----------|--------|----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.   | Tang.     |
| 0      | 46947.16  | 53170.94 | 60     | 88294.76 | 188072.65 |
| 1      | 46972.84  | 53208.26 | 59     | 88281.10 | 187940.74 |
| 2      | 46998.52  | 53245.59 | 58     | 88267.43 | 187808.98 |
| 3      | 47024.19  | 53282.93 | 57     | 88253.76 | 187677.36 |
| 4      | 47049.86  | 53320.29 | 56     | 88240.07 | 187545.88 |
| 5      | 47075.53  | 53357.65 | 55     | 88226.38 | 187414.55 |
| 6      | 47101.19  | 53395.03 | 54     | 88212.69 | 187283.36 |
| 7      | 47126.85  | 53432.42 | 53     | 88198.98 | 187152.31 |
| 8      | 47152.50  | 53469.82 | 52     | 88185.27 | 187021.41 |
| 9      | 47178.15  | 53507.23 | 51     | 88171.55 | 186890.64 |
| 10     | 47203.80  | 53544.65 | 50     | 88157.82 | 186760.03 |
| 11     | 47229.44  | 53582.08 | 49     | 88144.09 | 186629.55 |
| 12     | 47255.08  | 53619.53 | 48     | 88130.35 | 186499.21 |
| 13     | 47280.71  | 53656.99 | 47     | 88116.60 | 186369.02 |
| 14     | 47306.34  | 53694.46 | 46     | 88102.84 | 186238.96 |
| 15     | 47331.97  | 53731.94 | 45     | 88089.07 | 186109.05 |
| 16     | 47357.59  | 53769.43 | 44     | 88075.30 | 185979.28 |
| 17     | 47383.21  | 53806.94 | 43     | 88061.52 | 185849.65 |
| 18     | 47408.82  | 53844.45 | 42     | 88047.73 | 185720.15 |
| 19     | 47434.43  | 53881.98 | 41     | 88033.94 | 185590.80 |
| 20     | 47460.04  | 53919.52 | 40     | 88020.14 | 185461.59 |
| 21     | 47485.64  | 53957.07 | 39     | 88006.33 | 185332.52 |
| 22     | 47511.24  | 53994.64 | 38     | 87992.51 | 185203.58 |
| 23     | 47536.83  | 54032.21 | 37     | 87978.69 | 185074.79 |
| 24     | 47562.42  | 54069.80 | 36     | 87964.86 | 184946.13 |
| 25     | 47588.01  | 54107.40 | 35     | 87951.02 | 184817.61 |
| 26     | 47613.59  | 54145.01 | 34     | 87937.17 | 184689.23 |
| 27     | 47639.17  | 54182.63 | 33     | 87923.32 | 184560.99 |
| 28     | 47664.74  | 54220.27 | 32     | 87909.46 | 184432.89 |
| 29     | 47690.31  | 54257.91 | 31     | 87895.59 | 184304.92 |
| 30     | 47715.88  | 54295.57 | 30     | 87881.71 | 184177.09 |



| Minut. | 28. Grad. |          | Minut. | 61. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 47715.88  | 54295.57 | 30     | 87881.71  | 184177.09 |
| 31     | 47741.44  | 54333.24 | 29     | 87867.83  | 184049.39 |
| 32     | 47767.00  | 54370.92 | 28     | 87853.94  | 183921.84 |
| 33     | 47792.55  | 54408.62 | 27     | 87840.04  | 183794.42 |
| 34     | 47818.10  | 54446.32 | 26     | 87826.13  | 183667.13 |
| 35     | 47843.64  | 54484.04 | 25     | 87812.22  | 183539.99 |
| 36     | 47869.19  | 54521.77 | 24     | 87798.30  | 183412.97 |
| 37     | 47894.72  | 54559.51 | 23     | 87784.37  | 183286.10 |
| 38     | 47920.26  | 54597.26 | 22     | 87770.43  | 183159.36 |
| 39     | 47945.79  | 54635.03 | 21     | 87756.49  | 183032.75 |
| 40     | 47971.31  | 54672.81 | 20     | 87742.54  | 182906.28 |
| 41     | 47996.83  | 54710.60 | 19     | 87728.58  | 182779.94 |
| 42     | 48022.35  | 54748.40 | 18     | 87714.62  | 182653.74 |
| 43     | 48047.86  | 54786.21 | 17     | 87700.64  | 182527.67 |
| 44     | 48073.37  | 54824.04 | 16     | 87686.66  | 182401.73 |
| 45     | 48098.88  | 54861.88 | 15     | 87672.68  | 182275.93 |
| 46     | 48124.38  | 54899.73 | 14     | 87658.68  | 182150.26 |
| 47     | 48149.88  | 54937.59 | 13     | 87644.68  | 182024.73 |
| 48     | 48175.37  | 54975.46 | 12     | 87630.67  | 181899.32 |
| 49     | 48200.86  | 55013.35 | 11     | 87616.65  | 181774.05 |
| 50     | 48226.34  | 55051.25 | 10     | 87602.62  | 181648.92 |
| 51     | 48251.82  | 55089.16 | 9      | 87588.59  | 181523.91 |
| 52     | 48277.30  | 55127.08 | 8      | 87574.55  | 181399.04 |
| 53     | 48302.77  | 55165.02 | 7      | 87560.51  | 181274.30 |
| 54     | 48328.24  | 55202.97 | 6      | 87546.45  | 181149.69 |
| 55     | 48353.70  | 55240.93 | 5      | 87532.39  | 181025.21 |
| 56     | 48379.16  | 55278.90 | 4      | 87518.32  | 180900.86 |
| 57     | 48404.62  | 55316.88 | 3      | 87504.24  | 180776.64 |
| 58     | 48430.07  | 55354.88 | 2      | 87490.16  | 180652.56 |
| 59     | 48455.52  | 55392.88 | 1      | 87476.07  | 180528.60 |
| 60     | 48480.96  | 55430.90 | 0      | 87461.97  | 180404.78 |

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| Minut. | 29. Grad. |          | Minut. | 60. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 48480.96  | 55430.90 | 60     | 87461.97  | 180404.78 |
| 1      | 48506.40  | 55468.94 | 59     | 87447.86  | 180281.08 |
| 2      | 48531.84  | 55506.98 | 58     | 87433.75  | 180157.51 |
| 3      | 48557.27  | 55545.04 | 57     | 87419.63  | 180034.08 |
| 4      | 48582.70  | 55583.11 | 56     | 87405.50  | 179910.77 |
| 5      | 48608.12  | 55621.19 | 55     | 87391.37  | 179787.59 |
| 6      | 48633.54  | 55659.29 | 54     | 87377.22  | 179664.54 |
| 7      | 48658.95  | 55697.39 | 53     | 87363.07  | 179541.62 |
| 8      | 48684.36  | 55735.51 | 52     | 87348.91  | 179418.83 |
| 9      | 48709.77  | 55773.64 | 51     | 87334.75  | 179296.16 |
| 10     | 48735.17  | 55811.79 | 50     | 87320.58  | 179173.62 |
| 11     | 48760.57  | 55849.94 | 49     | 87306.40  | 179051.21 |
| 12     | 48785.97  | 55888.11 | 48     | 87292.21  | 178928.93 |
| 13     | 48811.36  | 55926.29 | 47     | 87278.01  | 178806.78 |
| 14     | 48836.74  | 55964.48 | 46     | 87263.81  | 178684.75 |
| 15     | 48862.12  | 56002.69 | 45     | 87249.60  | 178562.85 |
| 16     | 48887.50  | 56040.91 | 44     | 87235.38  | 178441.07 |
| 17     | 48912.88  | 56079.14 | 43     | 87221.16  | 178319.43 |
| 18     | 48938.24  | 56117.38 | 42     | 87206.93  | 178197.90 |
| 19     | 48963.61  | 56155.64 | 41     | 87192.69  | 178076.51 |
| 20     | 48988.97  | 56193.91 | 40     | 87178.44  | 177955.24 |
| 21     | 49014.33  | 56232.19 | 39     | 87164.19  | 177834.09 |
| 22     | 49039.68  | 56270.48 | 38     | 87149.93  | 177713.07 |
| 23     | 49065.03  | 56308.79 | 37     | 87135.66  | 177592.18 |
| 24     | 49090.37  | 56347.10 | 36     | 87121.38  | 177471.41 |
| 25     | 49115.72  | 56385.43 | 35     | 87107.10  | 177350.76 |
| 26     | 49141.05  | 56423.78 | 34     | 87092.81  | 177230.24 |
| 27     | 49166.38  | 56462.13 | 33     | 87078.51  | 177109.85 |
| 28     | 49191.71  | 56500.50 | 32     | 87064.20  | 176989.58 |
| 29     | 49217.04  | 56538.88 | 31     | 87049.89  | 176869.43 |
| 30     | 49242.36  | 56577.28 | 30     | 87035.57  | 176749.40 |

N. 270.



| Minut. | 22. Grad. |          | Minut. | 60. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 49242.36  | 56577.28 | 30     | 87035.57  | 176749.40 |
| 31     | 49267.67  | 56615.68 | 29     | 87021.24  | 176629.50 |
| 32     | 49292.98  | 56654.10 | 28     | 87006.91  | 176509.72 |
| 33     | 49318.29  | 56692.53 | 27     | 86992.56  | 176390.07 |
| 34     | 49343.59  | 56730.98 | 26     | 86978.21  | 176270.53 |
| 35     | 49368.89  | 56769.44 | 25     | 86963.86  | 176151.12 |
| 36     | 49394.19  | 56807.91 | 24     | 86949.49  | 176031.83 |
| 37     | 49419.48  | 56846.39 | 23     | 86935.12  | 175912.67 |
| 38     | 49444.76  | 56884.88 | 22     | 86920.74  | 175793.62 |
| 39     | 49470.05  | 56923.39 | 21     | 86906.35  | 175674.70 |
| 40     | 49495.33  | 56961.91 | 20     | 86891.96  | 175555.90 |
| 41     | 49520.60  | 57000.45 | 19     | 86877.56  | 175437.22 |
| 42     | 49545.87  | 57038.99 | 18     | 86863.15  | 175318.66 |
| 43     | 49571.13  | 57077.55 | 17     | 86848.73  | 175200.23 |
| 44     | 49596.39  | 57116.12 | 16     | 86834.31  | 175081.91 |
| 45     | 49621.65  | 57154.71 | 15     | 86819.88  | 174963.71 |
| 46     | 49646.90  | 57193.31 | 14     | 86805.44  | 174845.64 |
| 47     | 49672.15  | 57231.92 | 13     | 86791.00  | 174727.68 |
| 48     | 49697.40  | 57270.54 | 12     | 86776.55  | 174609.84 |
| 49     | 49722.64  | 57309.18 | 11     | 86762.09  | 174492.13 |
| 50     | 49747.87  | 57347.83 | 10     | 86747.62  | 174374.53 |
| 51     | 49773.10  | 57386.49 | 9      | 86733.14  | 174257.05 |
| 52     | 49798.33  | 57425.16 | 8      | 86718.66  | 174139.69 |
| 53     | 49823.55  | 57463.85 | 7      | 86704.17  | 174022.45 |
| 54     | 49848.77  | 57502.55 | 6      | 86689.67  | 173905.33 |
| 55     | 49873.99  | 57541.26 | 5      | 86675.17  | 173788.33 |
| 56     | 49899.20  | 57579.99 | 4      | 86660.66  | 173671.44 |
| 57     | 49924.41  | 57618.73 | 3      | 86646.14  | 173554.68 |
| 58     | 49949.61  | 57657.48 | 2      | 86631.61  | 173438.03 |
| 59     | 49974.81  | 57696.25 | 1      | 86617.08  | 173321.49 |
| 60     | 50000.00  | 57735.03 | 0      | 86602.54  | 173205.08 |



| Minut. | 30. Grad. |          | Minut. | 59. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 50000.00  | 57735.03 | 60     | 86602.54  | 173205.08 |
| 1      | 50025.19  | 57773.82 | 59     | 86587.99  | 173088.78 |
| 2      | 50050.37  | 57812.62 | 58     | 86573.44  | 172972.60 |
| 3      | 50075.56  | 57851.44 | 57     | 86558.87  | 172856.54 |
| 4      | 50100.73  | 57890.27 | 56     | 86544.30  | 172740.60 |
| 5      | 50125.91  | 57929.11 | 55     | 86529.73  | 172624.77 |
| 6      | 50151.07  | 57967.97 | 54     | 86515.14  | 172509.05 |
| 7      | 50176.24  | 58006.84 | 53     | 86500.55  | 172393.45 |
| 8      | 50201.40  | 58045.73 | 52     | 86485.95  | 172277.97 |
| 9      | 50226.55  | 58084.62 | 51     | 86471.34  | 172162.61 |
| 10     | 50251.70  | 58123.53 | 50     | 86456.73  | 172047.36 |
| 11     | 50276.85  | 58162.45 | 49     | 86442.11  | 171932.22 |
| 12     | 50301.99  | 58201.39 | 48     | 86427.48  | 171817.20 |
| 13     | 50327.13  | 58240.34 | 47     | 86412.84  | 171702.30 |
| 14     | 50352.27  | 58279.30 | 46     | 86398.20  | 171587.51 |
| 15     | 50377.40  | 58318.28 | 45     | 86383.55  | 171472.83 |
| 16     | 50402.52  | 58357.27 | 44     | 86368.89  | 171358.27 |
| 17     | 50427.65  | 58396.27 | 43     | 86354.23  | 171243.82 |
| 18     | 50452.76  | 58435.28 | 42     | 86339.56  | 171129.49 |
| 19     | 50477.88  | 58474.31 | 41     | 86324.88  | 171015.27 |
| 20     | 50502.98  | 58513.35 | 40     | 86310.19  | 170901.16 |
| 21     | 50528.09  | 58552.41 | 39     | 86295.49  | 170787.17 |
| 22     | 50553.19  | 58591.48 | 38     | 86280.79  | 170673.29 |
| 23     | 50578.28  | 58630.56 | 37     | 86266.08  | 170559.53 |
| 24     | 50603.38  | 58669.65 | 36     | 86251.37  | 170445.87 |
| 25     | 50628.46  | 58708.76 | 35     | 86236.64  | 170332.33 |
| 26     | 50653.55  | 58747.88 | 34     | 86221.91  | 170218.90 |
| 27     | 50678.63  | 58787.02 | 33     | 86207.17  | 170105.59 |
| 28     | 50703.70  | 58826.17 | 32     | 86192.43  | 169992.38 |
| 29     | 50728.77  | 58865.33 | 31     | 86177.68  | 169879.29 |
| 30     | 753.84    | 58904.50 | 30     | 86162.92  | 169766.31 |



| Minut. | 30. Grad. |          | Minut. | 59. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 50753.84  | 58904.50 | 30     | 86162.92  | 169766.31 |
| 31     | 50778.90  | 58943.69 | 29     | 86148.15  | 169653.44 |
| 32     | 50803.96  | 58982.89 | 28     | 86133.37  | 169540.69 |
| 33     | 50829.01  | 59022.11 | 27     | 86118.59  | 169428.04 |
| 34     | 50854.06  | 59061.34 | 26     | 86103.80  | 169315.50 |
| 35     | 50879.10  | 59100.58 | 25     | 86089.00  | 169203.08 |
| 36     | 50904.14  | 59139.83 | 24     | 86074.20  | 169090.77 |
| 37     | 50929.18  | 59179.10 | 23     | 86059.39  | 168978.56 |
| 38     | 50954.21  | 59218.39 | 22     | 86044.57  | 168866.47 |
| 39     | 50979.24  | 59257.68 | 21     | 86029.75  | 168754.49 |
| 40     | 51004.26  | 59296.99 | 20     | 86014.91  | 168642.61 |
| 41     | 51029.28  | 59336.32 | 19     | 86000.07  | 168530.85 |
| 42     | 51054.29  | 59375.66 | 18     | 85985.23  | 168419.19 |
| 43     | 51079.30  | 59415.01 | 17     | 85970.37  | 168307.65 |
| 44     | 51104.31  | 59454.37 | 16     | 85955.51  | 168196.21 |
| 45     | 51129.31  | 59493.75 | 15     | 85940.64  | 168084.89 |
| 46     | 51154.31  | 59533.14 | 14     | 85925.76  | 167973.67 |
| 47     | 51179.30  | 59572.54 | 13     | 85910.88  | 167862.56 |
| 48     | 51204.29  | 59611.96 | 12     | 85895.99  | 167751.56 |
| 49     | 51229.27  | 59651.40 | 11     | 85881.09  | 167640.67 |
| 50     | 51254.25  | 59690.84 | 10     | 85866.18  | 167529.88 |
| 51     | 51279.22  | 59730.30 | 9      | 85851.27  | 167419.21 |
| 52     | 51304.20  | 59769.78 | 8      | 85836.35  | 167308.64 |
| 53     | 51329.16  | 59809.27 | 7      | 85821.42  | 167198.18 |
| 54     | 51354.12  | 59848.77 | 6      | 85806.49  | 167087.82 |
| 55     | 51379.08  | 59888.28 | 5      | 85791.55  | 166977.58 |
| 56     | 51404.04  | 59927.81 | 4      | 85776.60  | 166867.44 |
| 57     | 51428.99  | 59967.35 | 3      | 85761.64  | 166757.41 |
| 58     | 51453.93  | 60006.91 | 2      | 85746.68  | 166647.48 |
| 59     | 51478.87  | 60046.48 | 1      | 85731.71  | 166537.66 |
| 60     | 51503.81  | 60086.06 | 0      | 85716.73  | 166427.95 |



| Minut. | 31. Grad. |          | Minut. | 58. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 51503.81  | 60086.06 | 60     | 85716.73  | 166427.95 |
| 1      | 51528.74  | 60125.66 | 59     | 85701.74  | 166318.34 |
| 2      | 51553.67  | 60165.27 | 58     | 85686.75  | 166208.84 |
| 3      | 51578.59  | 60204.90 | 57     | 85671.75  | 166099.45 |
| 4      | 51603.51  | 60244.54 | 56     | 85656.74  | 165990.16 |
| 5      | 51628.42  | 60284.19 | 55     | 85641.73  | 165880.97 |
| 6      | 51653.33  | 60323.86 | 54     | 85626.71  | 165771.89 |
| 7      | 51678.24  | 60363.54 | 53     | 85611.68  | 165662.92 |
| 8      | 51703.14  | 60403.23 | 52     | 85596.64  | 165554.05 |
| 9      | 51728.04  | 60442.94 | 51     | 85581.60  | 165445.29 |
| 10     | 51752.93  | 60482.66 | 50     | 85566.55  | 165336.63 |
| 11     | 51777.82  | 60522.40 | 49     | 85551.49  | 165228.08 |
| 12     | 51802.70  | 60562.15 | 48     | 85536.43  | 165119.63 |
| 13     | 51827.58  | 60601.92 | 47     | 85521.35  | 165011.28 |
| 14     | 51852.46  | 60641.70 | 46     | 85506.27  | 164903.04 |
| 15     | 51877.33  | 60681.49 | 45     | 85491.19  | 164794.90 |
| 16     | 51902.19  | 60721.30 | 44     | 85476.09  | 164686.86 |
| 17     | 51927.05  | 60761.12 | 43     | 85460.99  | 164578.93 |
| 18     | 51951.91  | 60800.95 | 42     | 85445.88  | 164471.11 |
| 19     | 51976.76  | 60840.80 | 41     | 85430.77  | 164363.38 |
| 20     | 52001.61  | 60880.67 | 40     | 85415.64  | 164255.76 |
| 21     | 52026.46  | 60920.54 | 39     | 85400.51  | 164148.24 |
| 22     | 52051.30  | 60960.43 | 38     | 85385.38  | 164040.82 |
| 23     | 52076.13  | 61000.34 | 37     | 85370.23  | 163933.51 |
| 24     | 52100.96  | 61040.26 | 36     | 85355.08  | 163826.30 |
| 25     | 52125.79  | 61080.19 | 35     | 85339.92  | 163719.19 |
| 26     | 52150.61  | 61120.14 | 34     | 85324.75  | 163612.18 |
| 27     | 52175.43  | 61160.11 | 33     | 85309.58  | 163505.28 |
| 28     | 52200.24  | 61200.08 | 32     | 85294.40  | 163398.47 |
| 29     | 52225.05  | 61240.07 | 31     | 85279.21  | 163291.77 |
| 30     | 52249.86  | 61280.08 | 30     | 85264.02  | 163185.17 |

N. 274.



| Minut. | 31. Grad. |          | Minut. | 58. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 52249.86  | 61280.08 | 30     | 85264.02  | 163185.17 |
| 31     | 52274.66  | 61320.10 | 29     | 85248.81  | 163078.67 |
| 32     | 52299.45  | 61360.13 | 28     | 85233.60  | 162972.27 |
| 33     | 52324.24  | 61400.18 | 27     | 85218.39  | 162865.97 |
| 34     | 52349.03  | 61440.24 | 26     | 85203.16  | 162759.77 |
| 35     | 52373.81  | 61480.32 | 25     | 85187.93  | 162653.68 |
| 36     | 52398.59  | 61520.41 | 24     | 85172.69  | 162547.68 |
| 37     | 52423.36  | 61560.52 | 23     | 85157.45  | 162441.78 |
| 38     | 52448.13  | 61600.64 | 22     | 85142.19  | 162335.99 |
| 39     | 52472.90  | 61640.77 | 21     | 85126.93  | 162230.29 |
| 40     | 52497.66  | 61680.92 | 20     | 85111.67  | 162124.69 |
| 41     | 52522.41  | 61721.08 | 19     | 85096.39  | 162019.20 |
| 42     | 52547.16  | 61761.26 | 18     | 85081.11  | 161913.80 |
| 43     | 52571.91  | 61801.45 | 17     | 85065.82  | 161808.50 |
| 44     | 52596.65  | 61841.66 | 16     | 85050.53  | 161703.30 |
| 45     | 52621.39  | 61881.88 | 15     | 85035.22  | 161598.20 |
| 46     | 52646.13  | 61922.11 | 14     | 85019.91  | 161493.20 |
| 47     | 52670.85  | 61962.36 | 13     | 85004.59  | 161388.29 |
| 48     | 52695.58  | 62002.63 | 12     | 84989.27  | 161283.49 |
| 49     | 52720.30  | 62042.91 | 11     | 84973.94  | 161178.78 |
| 50     | 52745.02  | 62083.20 | 10     | 84958.60  | 161074.17 |
| 51     | 52769.73  | 62123.51 | 9      | 84943.25  | 160969.66 |
| 52     | 52794.43  | 62163.83 | 8      | 84927.90  | 160865.25 |
| 53     | 52819.14  | 62204.17 | 7      | 84912.54  | 160760.94 |
| 54     | 52843.83  | 62244.52 | 6      | 84897.17  | 160656.72 |
| 55     | 52868.53  | 62284.88 | 5      | 84881.79  | 160552.60 |
| 56     | 52893.22  | 62325.26 | 4      | 84866.41  | 160448.58 |
| 57     | 52917.90  | 62365.66 | 3      | 84851.02  | 160344.65 |
| 58     | 52942.58  | 62406.07 | 2      | 84835.62  | 160240.82 |
| 59     | 52967.26  | 62446.50 | 1      | 84820.22  | 160137.09 |
| 60     | 52991.93  | 62486.94 | 0      | 84804.81  | 160033.45 |

N. 275.

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| Minut. | 32. Grad. |          | Minut. | 57. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 52991.93  | 62486.94 | 60     | 84804.81  | 160033.45 |
| 1      | 53016.59  | 62527.39 | 59     | 84789.39  | 159929.91 |
| 2      | 53041.25  | 62567.86 | 58     | 84773.97  | 159826.47 |
| 3      | 53065.91  | 62608.34 | 57     | 84758.53  | 159723.12 |
| 4      | 53090.56  | 62648.84 | 56     | 84743.09  | 159619.87 |
| 5      | 53115.21  | 62689.35 | 55     | 84727.65  | 159516.72 |
| 6      | 53139.86  | 62729.88 | 54     | 84712.19  | 159413.66 |
| 7      | 53164.50  | 62770.42 | 53     | 84696.73  | 159310.70 |
| 8      | 53189.13  | 62810.98 | 52     | 84681.26  | 159207.83 |
| 9      | 53213.76  | 62851.56 | 51     | 84665.79  | 159105.05 |
| 10     | 53238.39  | 62892.15 | 50     | 84650.30  | 159002.38 |
| 11     | 53263.01  | 62932.75 | 49     | 84634.81  | 158899.79 |
| 12     | 53287.63  | 62973.36 | 48     | 84619.32  | 158797.30 |
| 13     | 53312.24  | 63013.99 | 47     | 84603.81  | 158694.91 |
| 14     | 53336.85  | 63054.64 | 46     | 84588.30  | 158592.61 |
| 15     | 53361.45  | 63095.30 | 45     | 84572.78  | 158490.41 |
| 16     | 53386.05  | 63135.98 | 44     | 84557.26  | 158388.30 |
| 17     | 53410.64  | 63176.67 | 43     | 84541.72  | 158286.28 |
| 18     | 53435.23  | 63217.38 | 42     | 84526.18  | 158184.36 |
| 19     | 53459.82  | 63258.10 | 41     | 84510.63  | 158082.53 |
| 20     | 53484.40  | 63298.83 | 40     | 84495.08  | 157980.79 |
| 21     | 53508.98  | 63339.58 | 39     | 84479.52  | 157879.15 |
| 22     | 53533.55  | 63380.35 | 38     | 84463.95  | 157777.60 |
| 23     | 53558.12  | 63421.13 | 37     | 84448.37  | 157676.15 |
| 24     | 53582.68  | 63461.93 | 36     | 84432.79  | 157574.79 |
| 25     | 53607.24  | 63502.74 | 35     | 84417.20  | 157473.52 |
| 26     | 53631.79  | 63543.57 | 34     | 84401.60  | 157372.34 |
| 27     | 53656.34  | 63584.41 | 33     | 84386.00  | 157271.26 |
| 28     | 53680.88  | 63625.27 | 32     | 84370.39  | 157170.26 |
| 29     | 53705.42  | 63666.14 | 31     | 84354.77  | 157069.36 |
| 30     | 53729.96  | 63707.03 | 30     | 84339.14  | 156968.56 |



| Minut. | 32. Grad. |          | Minut. | 57. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 53729.96  | 63707.03 | 30     | 84339.14  | 156968.56 |
| 31     | 53754.49  | 63747.93 | 29     | 84323.51  | 156867.84 |
| 32     | 53779.02  | 63788.85 | 28     | 84307.87  | 156767.22 |
| 33     | 53803.54  | 63829.78 | 27     | 84292.22  | 156666.69 |
| 34     | 53828.06  | 63870.73 | 26     | 84276.57  | 156566.25 |
| 35     | 53852.57  | 63911.69 | 25     | 84260.91  | 156465.90 |
| 36     | 53877.08  | 63952.67 | 24     | 84245.24  | 156365.64 |
| 37     | 53901.58  | 63993.66 | 23     | 84229.56  | 156265.48 |
| 38     | 53926.08  | 64034.67 | 22     | 84213.88  | 156165.40 |
| 39     | 53950.58  | 64075.69 | 21     | 84198.19  | 156065.42 |
| 40     | 53975.07  | 64116.73 | 20     | 84182.49  | 155965.52 |
| 41     | 53999.55  | 64157.79 | 19     | 84166.79  | 155865.72 |
| 42     | 54024.03  | 64198.86 | 18     | 84151.08  | 155766.01 |
| 43     | 54048.51  | 64239.95 | 17     | 84135.36  | 155666.39 |
| 44     | 54072.98  | 64281.05 | 16     | 84119.63  | 155566.85 |
| 45     | 54097.45  | 64322.16 | 15     | 84103.90  | 155467.41 |
| 46     | 54121.91  | 64363.29 | 14     | 84088.16  | 155368.06 |
| 47     | 54146.37  | 64404.44 | 13     | 84072.41  | 155268.80 |
| 48     | 54170.82  | 64445.60 | 12     | 84056.66  | 155169.63 |
| 49     | 54195.27  | 64486.78 | 11     | 84040.90  | 155070.54 |
| 50     | 54219.71  | 64527.97 | 10     | 84025.13  | 154971.55 |
| 51     | 54244.15  | 64569.18 | 9      | 84009.35  | 154872.64 |
| 52     | 54268.59  | 64610.41 | 8      | 83993.57  | 154773.83 |
| 53     | 54293.02  | 64651.65 | 7      | 83977.78  | 154675.10 |
| 54     | 54317.44  | 64692.90 | 6      | 83961.99  | 154576.46 |
| 55     | 54341.87  | 64734.17 | 5      | 83946.18  | 154477.92 |
| 56     | 54366.28  | 64775.46 | 4      | 83930.37  | 154379.46 |
| 57     | 54390.69  | 64816.76 | 3      | 83914.55  | 154281.08 |
| 58     | 54415.10  | 64858.08 | 2      | 83898.73  | 154182.80 |
| 59     | 54439.50  | 64899.41 | 1      | 83882.90  | 154084.60 |
| 60     | 54463.90  | 64940.76 | 0      | 83867.06  | 153986.50 |



| Minut. | 33. Grad. |          | Minut. | 56. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Taug.     |
| 0      | 54463.90  | 64940.76 | 60     | 83867.06  | 153986.50 |
| 1      | 54488.30  | 64982.12 | 59     | 83851.21  | 153888.48 |
| 2      | 54512.69  | 65023.50 | 58     | 83835.36  | 153790.55 |
| 3      | 54537.07  | 65064.90 | 57     | 83819.50  | 153692.70 |
| 4      | 54561.45  | 65106.31 | 56     | 83803.63  | 153594.94 |
| 5      | 54585.83  | 65147.74 | 55     | 83787.75  | 153497.27 |
| 6      | 54610.20  | 65189.18 | 54     | 83771.87  | 153399.69 |
| 7      | 54634.56  | 65230.64 | 53     | 83755.98  | 153302.20 |
| 8      | 54658.92  | 65272.11 | 52     | 83740.08  | 153204.79 |
| 9      | 54683.28  | 65313.60 | 51     | 83724.18  | 153107.47 |
| 10     | 54707.63  | 65355.11 | 50     | 83708.27  | 153010.23 |
| 11     | 54731.98  | 65396.63 | 49     | 83692.36  | 152913.08 |
| 12     | 54756.32  | 65438.17 | 48     | 83676.43  | 152816.02 |
| 13     | 54780.66  | 65479.72 | 47     | 83660.50  | 152719.04 |
| 14     | 54804.99  | 65521.29 | 46     | 83644.56  | 152622.15 |
| 15     | 54829.32  | 65562.87 | 45     | 83628.62  | 152525.35 |
| 16     | 54853.65  | 65604.47 | 44     | 83612.66  | 152428.63 |
| 17     | 54877.97  | 65646.09 | 43     | 83596.70  | 152332.00 |
| 18     | 54902.28  | 65687.72 | 42     | 83580.74  | 152235.45 |
| 19     | 54926.59  | 65729.37 | 41     | 83564.76  | 152138.99 |
| 20     | 54950.90  | 65771.03 | 40     | 83548.78  | 152042.61 |
| 21     | 54975.20  | 65812.71 | 39     | 83532.79  | 151946.32 |
| 22     | 54999.50  | 65854.41 | 38     | 83516.80  | 151850.12 |
| 23     | 55023.79  | 65896.12 | 37     | 83500.80  | 151754.00 |
| 24     | 55048.07  | 65937.85 | 36     | 83484.79  | 151657.96 |
| 25     | 55072.36  | 65979.59 | 35     | 83468.77  | 151562.01 |
| 26     | 55096.63  | 66021.35 | 34     | 83452.75  | 151466.14 |
| 27     | 55120.91  | 66063.13 | 33     | 83436.72  | 151370.36 |
| 28     | 55145.18  | 66104.92 | 32     | 83420.68  | 151274.66 |
| 29     | 55169.44  | 66146.73 | 31     | 83404.63  | 151179.05 |
| 30     | 55193.70  | 66188.56 | 30     | 83388.58  | 151083.52 |



| Minut. | 33. Grad. |          | Minut. | 56. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 55193.70  | 66188.56 | 30     | 83388.58  | 151083.52 |
| 31     | 55217.95  | 66230.40 | 29     | 83372.52  | 150988.07 |
| 32     | 55242.20  | 66272.26 | 28     | 83356.46  | 150892.71 |
| 33     | 55266.45  | 66314.13 | 27     | 83340.38  | 150797.43 |
| 34     | 55290.69  | 66356.02 | 26     | 83324.30  | 150702.24 |
| 35     | 55314.92  | 66397.92 | 25     | 83308.22  | 150607.13 |
| 36     | 55339.15  | 66439.84 | 24     | 83292.12  | 150512.10 |
| 37     | 55363.38  | 66481.78 | 23     | 83276.02  | 150417.16 |
| 38     | 55387.60  | 66523.73 | 22     | 83259.91  | 150322.30 |
| 39     | 55411.82  | 66565.70 | 21     | 83243.80  | 150227.52 |
| 40     | 55436.03  | 66607.69 | 20     | 83227.68  | 150132.82 |
| 41     | 55460.24  | 66649.69 | 19     | 83211.55  | 150038.20 |
| 42     | 55484.44  | 66691.71 | 18     | 83195.41  | 149943.67 |
| 43     | 55508.64  | 66733.75 | 17     | 83179.27  | 149849.22 |
| 44     | 55532.83  | 66775.80 | 16     | 83163.12  | 149754.86 |
| 45     | 55557.02  | 66817.87 | 15     | 83146.96  | 149660.58 |
| 46     | 55581.21  | 66859.95 | 14     | 83130.80  | 149566.38 |
| 47     | 55605.39  | 66902.05 | 13     | 83114.62  | 149472.26 |
| 48     | 55629.56  | 66944.17 | 12     | 83098.45  | 149378.22 |
| 49     | 55653.73  | 66986.30 | 11     | 83082.26  | 149284.26 |
| 50     | 55677.90  | 67028.45 | 10     | 83066.07  | 149190.38 |
| 51     | 55702.06  | 67070.62 | 9      | 83049.87  | 149096.59 |
| 52     | 55726.21  | 67112.80 | 8      | 83033.66  | 149002.88 |
| 53     | 55750.36  | 67155.00 | 7      | 83017.45  | 148909.25 |
| 54     | 55774.51  | 67197.21 | 6      | 83001.23  | 148815.70 |
| 55     | 55798.65  | 67239.44 | 5      | 82985.00  | 148722.23 |
| 56     | 55822.79  | 67281.69 | 4      | 82968.77  | 148628.84 |
| 57     | 55846.92  | 67323.96 | 3      | 82952.52  | 148535.53 |
| 58     | 55871.05  | 67366.24 | 2      | 82936.28  | 148442.30 |
| 59     | 55895.17  | 67408.54 | 1      | 82920.02  | 148349.16 |
| 60     | 55919.29  | 67450.85 | 0      | 82903.76  | 148256.10 |



| Minut. | 34. Grad. |          | Minut. | 35. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 55919.29  | 67450.85 | 60     | 82903.76  | 148256.10 |
| 1      | 55943.40  | 67493.18 | 59     | 82887.49  | 148163.11 |
| 2      | 55967.51  | 67535.53 | 58     | 82871.21  | 148470.21 |
| 3      | 55991.62  | 67577.90 | 57     | 82854.93  | 147977.38 |
| 4      | 56015.71  | 67620.28 | 56     | 82838.64  | 147884.63 |
| 5      | 56039.81  | 67662.68 | 55     | 82822.34  | 147791.97 |
| 6      | 56063.90  | 67705.09 | 54     | 82806.03  | 147699.38 |
| 7      | 56087.98  | 67747.52 | 53     | 82789.72  | 147606.88 |
| 8      | 56112.06  | 67789.97 | 52     | 82773.40  | 147514.45 |
| 9      | 56136.14  | 67832.44 | 51     | 82757.07  | 147422.10 |
| 10     | 56160.21  | 67874.92 | 50     | 82740.74  | 147329.83 |
| 11     | 56184.28  | 67917.42 | 49     | 82724.40  | 147237.64 |
| 12     | 56208.34  | 67959.93 | 48     | 82708.06  | 147145.53 |
| 13     | 56232.39  | 68002.46 | 47     | 82691.70  | 147053.50 |
| 14     | 56256.44  | 68045.01 | 46     | 82675.34  | 146961.55 |
| 15     | 56280.49  | 68087.58 | 45     | 82658.97  | 146869.67 |
| 16     | 56304.53  | 68130.16 | 44     | 82642.60  | 146777.87 |
| 17     | 56328.57  | 68172.76 | 43     | 82626.22  | 146686.16 |
| 18     | 56352.60  | 68215.38 | 42     | 82609.83  | 146594.52 |
| 19     | 56376.63  | 68258.01 | 41     | 82593.43  | 146502.96 |
| 20     | 56400.66  | 68300.66 | 40     | 82577.03  | 146411.47 |
| 21     | 56424.67  | 68343.33 | 39     | 82560.62  | 146320.07 |
| 22     | 56448.69  | 68386.01 | 38     | 82544.20  | 146228.74 |
| 23     | 56472.70  | 68428.71 | 37     | 82527.78  | 146137.49 |
| 24     | 56496.70  | 68471.43 | 36     | 82511.35  | 146046.32 |
| 25     | 56520.70  | 68514.17 | 35     | 82494.91  | 145955.22 |
| 26     | 56544.69  | 68556.92 | 34     | 82478.47  | 145864.20 |
| 27     | 56568.68  | 68599.69 | 33     | 82462.02  | 145773.26 |
| 28     | 56592.67  | 68642.47 | 32     | 82445.56  | 145682.40 |
| 29     | 56616.65  | 68685.27 | 31     | 82429.09  | 145591.61 |
| 30     | 56640.62  | 68728.10 | 30     | 82412.62  | 145500.90 |



| Minut. | 34. Grad. |          | Minut. | 55. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 56640.62  | 68728.10 | 30     | 82412.62  | 145500.90 |
| 31     | 56664.59  | 68770.94 | 29     | 82396.14  | 145410.27 |
| 32     | 56688.56  | 68813.79 | 28     | 82379.65  | 145319.71 |
| 33     | 56712.52  | 68856.66 | 27     | 82363.16  | 145229.23 |
| 34     | 56736.48  | 68899.55 | 26     | 82346.66  | 145138.83 |
| 35     | 56760.43  | 68942.46 | 25     | 82330.15  | 145048.50 |
| 36     | 56784.37  | 68985.38 | 24     | 82313.64  | 144958.25 |
| 37     | 56808.32  | 69028.32 | 23     | 82297.12  | 144868.08 |
| 38     | 56832.25  | 69071.28 | 22     | 82280.59  | 144777.98 |
| 39     | 56856.18  | 69114.25 | 21     | 82264.05  | 144687.96 |
| 40     | 56880.11  | 69157.24 | 20     | 82247.51  | 144598.01 |
| 41     | 56904.03  | 69200.25 | 19     | 82230.96  | 144508.14 |
| 42     | 56927.95  | 69243.28 | 18     | 82214.40  | 144418.34 |
| 43     | 56951.86  | 69286.33 | 17     | 82197.84  | 144328.62 |
| 44     | 56975.77  | 69329.39 | 16     | 82181.27  | 144238.97 |
| 45     | 56999.68  | 69372.47 | 15     | 82164.69  | 144149.40 |
| 46     | 57023.57  | 69415.57 | 14     | 82148.11  | 144059.91 |
| 47     | 57047.47  | 69458.68 | 13     | 82131.52  | 143970.49 |
| 48     | 57071.36  | 69501.81 | 12     | 82114.92  | 143881.14 |
| 49     | 57095.24  | 69544.96 | 11     | 82098.32  | 143791.87 |
| 50     | 57119.12  | 69588.13 | 10     | 82081.70  | 143702.68 |
| 51     | 57142.99  | 69631.31 | 9      | 82065.08  | 143613.56 |
| 52     | 57166.86  | 69674.51 | 8      | 82048.46  | 143524.51 |
| 53     | 57190.73  | 69717.73 | 7      | 82031.83  | 143435.54 |
| 54     | 57214.59  | 69760.97 | 6      | 82015.19  | 143346.64 |
| 55     | 57238.44  | 69804.22 | 5      | 81998.54  | 143257.81 |
| 56     | 57262.29  | 69847.49 | 4      | 81981.89  | 143169.06 |
| 57     | 57286.14  | 69890.78 | 3      | 81965.23  | 143080.39 |
| 58     | 57309.98  | 69934.09 | 2      | 81948.56  | 142991.78 |
| 59     | 57333.81  | 69977.41 | 1      | 81931.89  | 142903.26 |
| 60     | 57357.64  | 70020.75 | 0      | 81915.20  | 142814.80 |



| Minut. | 35. Grad. |          | Minut. | 34. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 57357.64  | 70020.75 | 60     | 81915.20  | 142814.80 |
| 1      | 57381.47  | 70064.11 | 59     | 81898.52  | 142726.42 |
| 2      | 57405.29  | 70107.49 | 58     | 81881.82  | 142638.11 |
| 3      | 57429.11  | 70150.89 | 57     | 81865.12  | 142549.87 |
| 4      | 57452.92  | 70194.30 | 56     | 81848.41  | 142461.71 |
| 5      | 57476.72  | 70237.73 | 55     | 81831.69  | 142373.62 |
| 6      | 57500.52  | 70281.18 | 54     | 81814.97  | 142285.61 |
| 7      | 57524.32  | 70324.65 | 53     | 81798.24  | 142197.66 |
| 8      | 57548.11  | 70368.13 | 52     | 81781.50  | 142109.79 |
| 9      | 57571.90  | 70411.63 | 51     | 81764.76  | 142022.00 |
| 10     | 57595.68  | 70455.15 | 50     | 81748.01  | 141934.27 |
| 11     | 57619.46  | 70498.69 | 49     | 81731.25  | 141846.62 |
| 12     | 57643.23  | 70542.24 | 48     | 81714.49  | 141759.04 |
| 13     | 57667.00  | 70585.81 | 47     | 81697.72  | 141671.53 |
| 14     | 57690.76  | 70629.40 | 46     | 81680.94  | 141584.09 |
| 15     | 57714.52  | 70673.01 | 45     | 81664.15  | 141496.73 |
| 16     | 57738.27  | 70716.64 | 44     | 81647.36  | 141409.43 |
| 17     | 57762.02  | 70760.29 | 43     | 81630.56  | 141322.21 |
| 18     | 57785.76  | 70803.95 | 42     | 81613.76  | 141235.06 |
| 19     | 57809.50  | 70847.63 | 41     | 81596.95  | 141147.99 |
| 20     | 57833.23  | 70891.33 | 40     | 81580.13  | 141060.98 |
| 21     | 57856.96  | 70935.05 | 39     | 81563.30  | 140974.05 |
| 22     | 57880.68  | 70978.78 | 38     | 81546.47  | 140887.18 |
| 23     | 57904.40  | 71022.53 | 37     | 81529.63  | 140800.39 |
| 24     | 57928.12  | 71066.30 | 36     | 81512.78  | 140713.67 |
| 25     | 57951.83  | 71110.09 | 35     | 81495.93  | 140627.02 |
| 26     | 57975.53  | 71153.90 | 34     | 81479.06  | 140540.44 |
| 27     | 57999.23  | 71197.73 | 33     | 81462.20  | 140453.93 |
| 28     | 58022.92  | 71241.57 | 32     | 81445.32  | 140367.49 |
| 29     | 58046.61  | 71285.43 | 31     | 81428.44  | 140281.13 |
| 30     | 58070.30  | 71329.31 | 30     | 81411.55  | 140194.83 |



| Minut. | 35. Grad. |          | Minut. | 34. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 58070.30  | 71329.31 | 30     | 81411.55  | 140194.83 |
| 31     | 58093.97  | 71373.21 | 29     | 81394.65  | 140108.60 |
| 32     | 58117.65  | 71417.13 | 28     | 81377.75  | 140022.45 |
| 33     | 58141.32  | 71461.06 | 27     | 81360.84  | 139936.36 |
| 34     | 58164.98  | 71505.01 | 26     | 81343.93  | 139850.34 |
| 35     | 58188.64  | 71548.98 | 25     | 81327.01  | 139764.40 |
| 36     | 58212.30  | 71592.97 | 24     | 81310.08  | 139678.52 |
| 37     | 58235.95  | 71636.98 | 23     | 81293.14  | 139592.72 |
| 38     | 58259.59  | 71681.01 | 22     | 81276.20  | 139506.98 |
| 39     | 58283.23  | 71725.05 | 21     | 81259.25  | 139421.31 |
| 40     | 58306.87  | 71769.11 | 20     | 81242.29  | 139335.71 |
| 41     | 58330.50  | 71813.19 | 19     | 81225.32  | 139250.18 |
| 42     | 58354.12  | 71857.29 | 18     | 81208.35  | 139164.73 |
| 43     | 58377.74  | 71901.41 | 17     | 81191.37  | 139079.34 |
| 44     | 58401.36  | 71945.55 | 16     | 81174.39  | 138994.01 |
| 45     | 58424.97  | 71989.70 | 15     | 81157.40  | 138908.76 |
| 46     | 58448.57  | 72033.87 | 14     | 81140.40  | 138823.58 |
| 47     | 58472.17  | 72078.06 | 13     | 81123.39  | 138738.46 |
| 48     | 58495.77  | 72122.27 | 12     | 81106.38  | 138653.42 |
| 49     | 58519.36  | 72166.50 | 11     | 81089.36  | 138568.44 |
| 50     | 58542.94  | 72210.75 | 10     | 81072.34  | 138483.53 |
| 51     | 58566.52  | 72255.02 | 9      | 81055.30  | 138398.69 |
| 52     | 58590.10  | 72299.31 | 8      | 81038.26  | 138313.92 |
| 53     | 58613.67  | 72343.61 | 7      | 81021.22  | 138229.22 |
| 54     | 58637.24  | 72387.93 | 6      | 81004.16  | 138144.58 |
| 55     | 58660.80  | 72432.27 | 5      | 80987.10  | 138060.01 |
| 56     | 58684.35  | 72476.63 | 4      | 80970.04  | 137975.51 |
| 57     | 58707.90  | 72521.01 | 3      | 80952.96  | 137891.08 |
| 58     | 58731.45  | 72565.41 | 2      | 80935.88  | 137806.72 |
| 59     | 58754.99  | 72609.83 | 1      | 80918.79  | 137722.42 |
| 60     | 58778.53  | 72654.26 | 0      | 80901.70  | 137638.19 |

Num. 283.



| Minut. | 36. Grad. |          | Minut. | 53. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 58778.53  | 72654.26 | 60     | 80901.70  | 137638.12 |
| 1      | 58802.06  | 72698.71 | 59     | 80884.60  | 137554.03 |
| 2      | 58825.58  | 72743.18 | 58     | 80867.49  | 137469.94 |
| 3      | 58849.10  | 72787.67 | 57     | 80850.37  | 137385.91 |
| 4      | 58872.62  | 72832.18 | 56     | 80833.25  | 137301.95 |
| 5      | 58896.13  | 72876.71 | 55     | 80816.12  | 137218.05 |
| 6      | 58919.64  | 72921.26 | 54     | 80798.99  | 137134.23 |
| 7      | 58943.14  | 72965.82 | 53     | 80781.85  | 137050.47 |
| 8      | 58966.63  | 73010.40 | 52     | 80764.70  | 136966.78 |
| 9      | 58990.12  | 73055.01 | 51     | 80747.54  | 136883.15 |
| 10     | 59013.61  | 73099.63 | 50     | 80730.38  | 136799.59 |
| 11     | 59037.09  | 73144.27 | 49     | 80713.21  | 136716.10 |
| 12     | 59060.57  | 73188.94 | 48     | 80696.03  | 136632.67 |
| 13     | 59084.04  | 73233.62 | 47     | 80678.85  | 136549.31 |
| 14     | 59107.50  | 73278.31 | 46     | 80661.66  | 136466.02 |
| 15     | 59130.96  | 73323.03 | 45     | 80644.46  | 136382.79 |
| 16     | 59154.42  | 73367.77 | 44     | 80627.26  | 136299.63 |
| 17     | 59177.87  | 73412.53 | 43     | 80610.05  | 136216.53 |
| 18     | 59201.32  | 73457.30 | 42     | 80592.83  | 136133.50 |
| 19     | 59224.76  | 73502.10 | 41     | 80575.60  | 136050.54 |
| 20     | 59248.19  | 73546.91 | 40     | 80558.37  | 135967.64 |
| 21     | 59271.63  | 73591.74 | 39     | 80541.13  | 135884.81 |
| 22     | 59295.05  | 73636.60 | 38     | 80523.89  | 135802.04 |
| 23     | 59318.47  | 73681.47 | 37     | 80506.64  | 135719.34 |
| 24     | 59341.89  | 73726.36 | 36     | 80469.38  | 135636.70 |
| 25     | 59365.30  | 73771.27 | 35     | 80472.11  | 135554.13 |
| 26     | 59388.71  | 73816.20 | 34     | 80454.84  | 135471.62 |
| 27     | 59412.11  | 73861.15 | 33     | 80437.56  | 135389.18 |
| 28     | 59435.50  | 73906.11 | 32     | 80420.28  | 135306.80 |
| 29     | 59458.89  | 73951.10 | 31     | 80402.99  | 135224.49 |
| 30     | 59482.28  | 73996.11 | 30     | 80385.69  | 135142.24 |



| Minut. | 36. Grad. |          | Minut. | 53. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 59482.28  | 73996.11 | 30     | 80385.69  | 135142.24 |
| 31     | 59505.66  | 74041.14 | 29     | 80368.38  | 135060.06 |
| 32     | 59529.03  | 74086.18 | 28     | 80351.07  | 134977.94 |
| 33     | 59552.40  | 74131.24 | 27     | 80333.75  | 134895.89 |
| 34     | 59575.77  | 74176.33 | 26     | 80316.42  | 134813.90 |
| 35     | 59599.13  | 74221.43 | 25     | 80299.09  | 134731.97 |
| 36     | 59622.49  | 74266.55 | 24     | 80281.75  | 134650.11 |
| 37     | 59645.84  | 74311.70 | 23     | 80264.40  | 134568.32 |
| 38     | 59669.18  | 74356.86 | 22     | 80247.05  | 134486.58 |
| 39     | 59692.52  | 74402.04 | 21     | 80229.69  | 134404.92 |
| 40     | 59715.86  | 74447.24 | 20     | 80212.32  | 134323.31 |
| 41     | 59739.19  | 74492.46 | 19     | 80194.94  | 134241.77 |
| 42     | 59762.51  | 74537.70 | 18     | 80177.56  | 134160.29 |
| 43     | 59785.83  | 74582.96 | 17     | 80160.17  | 134078.88 |
| 44     | 59809.15  | 74628.24 | 16     | 80142.78  | 133997.53 |
| 45     | 59832.46  | 74673.54 | 15     | 80125.38  | 133916.24 |
| 46     | 59855.76  | 74718.86 | 14     | 80107.97  | 133835.02 |
| 47     | 59879.06  | 74764.20 | 13     | 80090.56  | 133753.86 |
| 48     | 59902.36  | 74809.56 | 12     | 80073.14  | 133672.76 |
| 49     | 59925.65  | 74854.94 | 11     | 80055.71  | 133591.72 |
| 50     | 59948.93  | 74900.33 | 10     | 80038.27  | 133510.75 |
| 51     | 59972.21  | 74945.75 | 9      | 80020.83  | 133429.84 |
| 52     | 59995.49  | 74991.19 | 8      | 80003.38  | 133349.00 |
| 53     | 60018.76  | 75036.65 | 7      | 79985.93  | 133268.22 |
| 54     | 60042.02  | 75082.12 | 6      | 79968.47  | 133187.49 |
| 55     | 60065.28  | 75127.62 | 5      | 79951.00  | 133106.84 |
| 56     | 60088.53  | 75173.14 | 4      | 79933.52  | 133026.24 |
| 57     | 60111.78  | 75218.67 | 3      | 79916.04  | 132945.71 |
| 58     | 60135.03  | 75264.23 | 2      | 79898.55  | 132865.24 |
| 59     | 60158.27  | 75309.81 | 1      | 79881.05  | 132784.83 |
| 60     | 60181.50  | 75355.40 | 0      | 79863.55  | 132704.48 |



| Minut. | 37. Grad. |          | Minut. | 52. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 60181.50  | 75355.40 | 60     | 79865.55  | 132704.48 |
| 1      | 60204.73  | 75401.02 | 59     | 79846.04  | 132624.20 |
| 2      | 60227.95  | 75446.66 | 58     | 79828.52  | 132543.97 |
| 3      | 60251.17  | 75492.32 | 57     | 79811.00  | 132463.81 |
| 4      | 60274.39  | 75537.99 | 56     | 79793.47  | 132383.71 |
| 5      | 60297.60  | 75583.69 | 55     | 79775.94  | 132303.68 |
| 6      | 60320.80  | 75629.41 | 54     | 79758.39  | 132223.70 |
| 7      | 60344.00  | 75675.14 | 53     | 79740.84  | 132143.79 |
| 8      | 60367.19  | 75720.90 | 52     | 79723.29  | 132063.93 |
| 9      | 60390.38  | 75766.68 | 51     | 79705.72  | 131984.14 |
| 10     | 60413.56  | 75812.48 | 50     | 79688.15  | 131904.41 |
| 11     | 60436.74  | 75858.29 | 49     | 79670.57  | 131824.74 |
| 12     | 60459.91  | 75904.13 | 48     | 79652.99  | 131745.13 |
| 13     | 60483.08  | 75949.99 | 47     | 79635.40  | 131665.59 |
| 14     | 60506.24  | 75995.87 | 46     | 79617.80  | 131586.10 |
| 15     | 60529.40  | 76041.77 | 45     | 79600.20  | 131506.68 |
| 16     | 60552.55  | 76087.69 | 44     | 79582.59  | 131427.31 |
| 17     | 60575.70  | 76133.63 | 43     | 79564.97  | 131348.01 |
| 18     | 60598.84  | 76179.59 | 42     | 79547.35  | 131268.76 |
| 19     | 60621.98  | 76225.57 | 41     | 79529.72  | 131189.58 |
| 20     | 60645.11  | 76271.57 | 40     | 79512.08  | 131110.46 |
| 21     | 60668.23  | 76317.59 | 39     | 79494.43  | 131031.40 |
| 22     | 60691.36  | 76363.63 | 38     | 79476.78  | 130952.39 |
| 23     | 60714.47  | 76409.69 | 37     | 79459.13  | 130873.45 |
| 24     | 60737.58  | 76455.77 | 36     | 79441.46  | 130794.57 |
| 25     | 60760.69  | 76501.88 | 35     | 79423.79  | 130715.75 |
| 26     | 60783.79  | 76548.00 | 34     | 79406.11  | 130636.99 |
| 27     | 60806.89  | 76594.14 | 33     | 79388.43  | 130558.28 |
| 28     | 60829.98  | 76640.31 | 32     | 79370.74  | 130479.64 |
| 29     | 60853.06  | 76686.49 | 31     | 79353.04  | 130401.06 |
| 30     | 60876.14  | 76732.70 | 30     | 79335.33  | 130322.54 |



| Minut. | 37. Grad. |          | Minut. | 52. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 60876.14  | 76732.70 | 30     | 79335.33  | 130322.54 |
| 31     | 60899.22  | 76778.93 | 29     | 79317.62  | 130244.07 |
| 32     | 60922.29  | 76825.17 | 28     | 79299.90  | 130165.67 |
| 33     | 60945.35  | 76871.44 | 27     | 79282.18  | 130087.32 |
| 34     | 60968.41  | 76917.73 | 26     | 79264.45  | 130009.04 |
| 35     | 60991.47  | 76964.04 | 25     | 79246.71  | 129930.81 |
| 36     | 61014.52  | 77010.37 | 24     | 79228.96  | 129852.65 |
| 37     | 61037.56  | 77056.72 | 23     | 79211.21  | 129774.54 |
| 38     | 61060.60  | 77103.09 | 22     | 79193.45  | 129696.49 |
| 39     | 61083.63  | 77149.48 | 21     | 79175.69  | 129618.50 |
| 40     | 61106.66  | 77195.89 | 20     | 79157.92  | 129540.57 |
| 41     | 61129.69  | 77242.33 | 19     | 79140.14  | 129462.69 |
| 42     | 61152.70  | 77288.79 | 18     | 79122.35  | 129384.88 |
| 43     | 61175.72  | 77335.26 | 17     | 79104.56  | 129307.12 |
| 44     | 61198.73  | 77381.75 | 16     | 79086.76  | 129229.43 |
| 45     | 61221.73  | 77428.27 | 15     | 79068.96  | 129151.79 |
| 46     | 61244.73  | 77474.81 | 14     | 79051.15  | 129074.21 |
| 47     | 61267.72  | 77521.37 | 13     | 79033.33  | 128996.69 |
| 48     | 61290.71  | 77567.95 | 12     | 79015.50  | 128919.22 |
| 49     | 61313.69  | 77614.55 | 11     | 78997.67  | 128841.82 |
| 50     | 61336.66  | 77661.17 | 10     | 78979.83  | 128764.47 |
| 51     | 61359.64  | 77707.82 | 9      | 78961.98  | 128687.18 |
| 52     | 61382.60  | 77754.48 | 8      | 78944.13  | 128609.95 |
| 53     | 61405.56  | 77801.15 | 7      | 78926.27  | 128532.77 |
| 54     | 61428.52  | 77847.88 | 6      | 78908.41  | 128455.66 |
| 55     | 61451.47  | 77894.60 | 5      | 78890.54  | 128378.60 |
| 56     | 61474.42  | 77941.35 | 4      | 78872.66  | 128301.60 |
| 57     | 61497.36  | 77988.12 | 3      | 78854.77  | 128224.66 |
| 58     | 61520.29  | 78034.92 | 2      | 78836.88  | 128147.76 |
| 59     | 61543.22  | 78081.73 | 1      | 78818.98  | 128070.93 |
| 60     | 61566.15  | 78128.56 | 0      | 78801.08  | 127994.16 |



| Minut. | 38. Grad. |          | Minut. | 51. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 61566.15  | 78128.56 | 60     | 78801.08  | 127994.16 |
| 1      | 61589.07  | 78175.42 | 59     | 78783.16  | 127917.45 |
| 2      | 61611.98  | 78222.29 | 58     | 78765.24  | 127840.79 |
| 3      | 61634.89  | 78269.19 | 57     | 78747.32  | 127764.19 |
| 4      | 61657.79  | 78316.11 | 56     | 78729.39  | 127687.64 |
| 5      | 61680.69  | 78363.05 | 55     | 78711.45  | 127611.16 |
| 6      | 61703.59  | 78410.02 | 54     | 78693.50  | 127534.73 |
| 7      | 61726.48  | 78457.00 | 53     | 78675.55  | 127458.36 |
| 8      | 61749.36  | 78504.00 | 52     | 78657.59  | 127382.04 |
| 9      | 61772.24  | 78551.03 | 51     | 78639.63  | 127305.78 |
| 10     | 61795.11  | 78598.08 | 50     | 78621.65  | 127229.57 |
| 11     | 61817.98  | 78645.15 | 49     | 78603.67  | 127153.42 |
| 12     | 61840.84  | 78692.24 | 48     | 78585.69  | 127077.33 |
| 13     | 61863.70  | 78739.35 | 47     | 78567.70  | 127001.30 |
| 14     | 61886.55  | 78786.49 | 46     | 78549.70  | 126925.32 |
| 15     | 61909.39  | 78833.64 | 45     | 78531.69  | 126849.39 |
| 16     | 61932.24  | 78880.82 | 44     | 78513.68  | 126773.53 |
| 17     | 61955.07  | 78928.02 | 43     | 78495.66  | 126697.72 |
| 18     | 61977.90  | 78975.24 | 42     | 78477.64  | 126621.96 |
| 19     | 62000.73  | 79022.48 | 41     | 78459.61  | 126546.26 |
| 20     | 62023.55  | 79069.75 | 40     | 78441.57  | 126470.62 |
| 21     | 62046.36  | 79117.03 | 39     | 78423.52  | 126395.03 |
| 22     | 62069.17  | 79164.34 | 38     | 78405.47  | 126319.50 |
| 23     | 62091.98  | 79211.67 | 37     | 78387.41  | 126244.02 |
| 24     | 62114.78  | 79259.02 | 36     | 78369.35  | 126168.60 |
| 25     | 62137.57  | 79306.40 | 35     | 78351.27  | 126093.23 |
| 26     | 62160.36  | 79353.79 | 34     | 78333.20  | 126017.92 |
| 27     | 62183.14  | 79401.21 | 33     | 78315.11  | 125942.67 |
| 28     | 62205.92  | 79448.65 | 32     | 78297.02  | 125867.47 |
| 29     | 62228.70  | 79496.11 | 31     | 78278.92  | 125792.32 |
| 30     | 62251.46  | 79543.59 | 30     | 78260.82  | 125717.23 |



| Minut. | 38. Grad. |          | Minut. | 51. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 62251.46  | 79543.59 | 30     | 78260.82  | 125717.23 |
| 31     | 62274.23  | 79591.10 | 29     | 78242.70  | 125642.19 |
| 32     | 62296.98  | 79638.62 | 28     | 78224.59  | 125567.21 |
| 33     | 62319.73  | 79686.17 | 27     | 78206.46  | 125492.29 |
| 34     | 62342.48  | 79733.74 | 26     | 78188.33  | 125417.42 |
| 35     | 62365.22  | 79781.34 | 25     | 78170.19  | 125342.60 |
| 36     | 62387.96  | 79828.95 | 24     | 78152.05  | 125267.84 |
| 37     | 62410.69  | 79876.59 | 23     | 78133.90  | 125193.13 |
| 38     | 62433.42  | 79924.25 | 22     | 78115.74  | 125118.48 |
| 39     | 62456.14  | 79971.93 | 21     | 78097.57  | 125043.88 |
| 40     | 62478.85  | 80019.63 | 20     | 78079.40  | 124969.33 |
| 41     | 62501.56  | 80067.36 | 19     | 78061.22  | 124894.84 |
| 42     | 62524.27  | 80115.11 | 18     | 78043.04  | 124820.40 |
| 43     | 62546.96  | 80162.88 | 17     | 78024.85  | 124746.02 |
| 44     | 62569.66  | 80210.67 | 16     | 78006.65  | 124671.69 |
| 45     | 62592.35  | 80258.48 | 15     | 77988.45  | 124597.42 |
| 46     | 62615.03  | 80306.32 | 14     | 77970.24  | 124523.20 |
| 47     | 62637.71  | 80354.18 | 13     | 77952.02  | 124449.03 |
| 48     | 62660.38  | 80402.06 | 12     | 77933.80  | 124374.92 |
| 49     | 62683.05  | 80449.97 | 11     | 77915.57  | 124300.86 |
| 50     | 62705.71  | 80497.90 | 10     | 77897.33  | 124226.85 |
| 51     | 62728.37  | 80545.85 | 9      | 77879.08  | 124152.90 |
| 52     | 62751.02  | 80593.82 | 8      | 77860.83  | 124079.00 |
| 53     | 62773.66  | 80641.81 | 7      | 77842.58  | 124005.15 |
| 54     | 62796.31  | 80689.83 | 6      | 77824.31  | 123931.36 |
| 55     | 62818.94  | 80737.87 | 5      | 77806.04  | 123857.62 |
| 56     | 62841.57  | 80785.93 | 4      | 77787.77  | 123783.93 |
| 57     | 62864.20  | 80834.01 | 3      | 77769.49  | 123710.30 |
| 58     | 62886.82  | 80882.12 | 2      | 77751.20  | 123636.72 |
| 59     | 62909.43  | 80930.25 | 1      | 77732.90  | 123563.19 |
| 60     | 62932.04  | 80978.40 | 0      | 77714.60  | 123489.72 |



| Minut. | 39. Grad. |          | Minut. | 50. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 62932.04  | 80978.40 | 60     | 77714.60  | 123489.72 |
| 1      | 62954.64  | 81026.58 | 59     | 77696.29  | 123416.29 |
| 2      | 62977.24  | 81074.78 | 58     | 77677.97  | 123342.92 |
| 3      | 62999.83  | 81123.00 | 57     | 77659.65  | 123269.61 |
| 4      | 63022.42  | 81171.24 | 56     | 77641.32  | 123196.34 |
| 5      | 63045.00  | 81219.51 | 55     | 77622.98  | 123123.13 |
| 6      | 63067.58  | 81267.80 | 54     | 77604.64  | 123049.97 |
| 7      | 63090.15  | 81316.11 | 53     | 77586.29  | 122976.87 |
| 8      | 63112.72  | 81364.44 | 52     | 77567.94  | 122903.81 |
| 9      | 63135.28  | 81412.80 | 51     | 77549.57  | 122830.81 |
| 10     | 63157.84  | 81461.18 | 50     | 77531.21  | 122757.86 |
| 11     | 63180.39  | 81509.58 | 49     | 77512.83  | 122684.96 |
| 12     | 63202.93  | 81558.01 | 48     | 77494.45  | 122612.11 |
| 13     | 63225.47  | 81606.46 | 47     | 77476.06  | 122539.32 |
| 14     | 63248.00  | 81654.93 | 46     | 77457.67  | 122466.58 |
| 15     | 63270.53  | 81703.43 | 45     | 77439.26  | 122393.89 |
| 16     | 63293.06  | 81751.95 | 44     | 77420.86  | 122321.25 |
| 17     | 63315.57  | 81800.49 | 43     | 77402.44  | 122248.66 |
| 18     | 63338.09  | 81849.05 | 42     | 77384.02  | 122176.13 |
| 19     | 63360.59  | 81897.64 | 41     | 77365.59  | 122103.64 |
| 20     | 63383.10  | 81946.25 | 40     | 77347.16  | 122031.21 |
| 21     | 63405.59  | 81994.88 | 39     | 77328.72  | 121958.83 |
| 22     | 63428.08  | 82043.54 | 38     | 77310.27  | 121886.50 |
| 23     | 63450.57  | 82092.22 | 37     | 77291.82  | 121814.22 |
| 24     | 63473.05  | 82140.93 | 36     | 77273.36  | 121741.99 |
| 25     | 63495.53  | 82189.65 | 35     | 77254.89  | 121669.82 |
| 26     | 63518.00  | 82238.40 | 34     | 77236.42  | 121597.69 |
| 27     | 63540.46  | 82287.18 | 33     | 77217.94  | 121525.62 |
| 28     | 63562.92  | 82335.97 | 32     | 77199.45  | 121453.59 |
| 29     | 63585.37  | 82384.79 | 31     | 77180.96  | 121381.62 |
| 30     | 63607.82  | 82433.64 | 30     | 77162.46  | 121309.70 |



| Minut. | 39. Grad. |          | Minut. | 50. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 63607.82  | 82433.64 | 30     | 77162.46  | 121309.70 |
| 31     | 63630.26  | 82482.51 | 29     | 77143.95  | 121237.83 |
| 32     | 63652.70  | 82531.40 | 28     | 77125.44  | 121166.01 |
| 33     | 63675.13  | 82580.31 | 27     | 77106.92  | 121094.24 |
| 34     | 63697.56  | 82629.25 | 26     | 77088.39  | 121022.52 |
| 35     | 63719.98  | 82678.21 | 25     | 77069.86  | 120950.85 |
| 36     | 63742.40  | 82727.19 | 24     | 77051.32  | 120879.23 |
| 37     | 63764.81  | 82776.20 | 23     | 77032.78  | 120807.67 |
| 38     | 63787.21  | 82825.23 | 22     | 77014.23  | 120736.15 |
| 39     | 63809.61  | 82874.29 | 21     | 76995.67  | 120664.68 |
| 40     | 63832.01  | 82923.37 | 20     | 76977.10  | 120593.27 |
| 41     | 63854.40  | 82972.47 | 19     | 76958.53  | 120521.90 |
| 42     | 63876.78  | 83021.60 | 18     | 76939.95  | 120450.58 |
| 43     | 63899.16  | 83070.75 | 17     | 76921.37  | 120379.31 |
| 44     | 63921.53  | 83119.92 | 16     | 76902.78  | 120308.10 |
| 45     | 63943.90  | 83169.12 | 15     | 76884.18  | 120236.93 |
| 46     | 63966.26  | 83218.34 | 14     | 76865.58  | 120165.81 |
| 47     | 63988.62  | 83267.59 | 13     | 76846.97  | 120094.75 |
| 48     | 64010.97  | 83316.86 | 12     | 76828.35  | 120023.73 |
| 49     | 64033.32  | 83366.15 | 11     | 76809.73  | 119952.76 |
| 50     | 64055.66  | 83415.47 | 10     | 76791.10  | 119881.84 |
| 51     | 64077.99  | 83464.81 | 9      | 76772.46  | 119810.97 |
| 52     | 64100.32  | 83514.18 | 8      | 76753.82  | 119740.15 |
| 53     | 64122.64  | 83563.57 | 7      | 76735.17  | 119669.38 |
| 54     | 64144.96  | 83612.98 | 6      | 76716.51  | 119598.66 |
| 55     | 64167.28  | 83662.42 | 5      | 76697.85  | 119527.99 |
| 56     | 64189.58  | 83711.88 | 4      | 76679.18  | 119457.36 |
| 57     | 64211.89  | 83761.36 | 3      | 76660.51  | 119386.79 |
| 58     | 64234.18  | 83810.87 | 2      | 76641.83  | 119316.26 |
| 59     | 64256.47  | 83860.40 | 1      | 76623.14  | 119245.79 |
| 60     | 64278.76  | 83909.96 | 0      | 76604.44  | 119175.36 |



| Minut. | 40. Grad. |          | Minut. | 49. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 64278.76  | 83909.96 | 60     | 76604.44  | 119175.36 |
| 1      | 64301.04  | 83959.54 | 59     | 76585.74  | 119104.98 |
| 2      | 64323.32  | 84009.15 | 58     | 76567.03  | 119034.65 |
| 3      | 64345.59  | 84058.78 | 57     | 76548.32  | 118964.37 |
| 4      | 64367.85  | 84108.44 | 56     | 76529.60  | 118894.14 |
| 5      | 64390.11  | 84158.12 | 55     | 76510.87  | 118823.95 |
| 6      | 64412.36  | 84207.82 | 54     | 76492.14  | 118753.82 |
| 7      | 64434.61  | 84257.55 | 53     | 76473.40  | 118683.73 |
| 8      | 64456.85  | 84307.30 | 52     | 76454.65  | 118613.69 |
| 9      | 64479.09  | 84357.08 | 51     | 76435.90  | 118543.70 |
| 10     | 64501.32  | 84406.88 | 50     | 76417.14  | 118473.76 |
| 11     | 64523.55  | 84456.70 | 49     | 76398.37  | 118403.87 |
| 12     | 64545.77  | 84506.55 | 48     | 76379.60  | 118334.02 |
| 13     | 64567.98  | 84556.43 | 47     | 76360.82  | 118264.22 |
| 14     | 64590.19  | 84606.33 | 46     | 76342.04  | 118194.47 |
| 15     | 64612.40  | 84656.25 | 45     | 76323.25  | 118124.77 |
| 16     | 64634.60  | 84706.20 | 44     | 76304.45  | 118055.12 |
| 17     | 64656.79  | 84756.17 | 43     | 76285.64  | 117985.51 |
| 18     | 64678.98  | 84806.17 | 42     | 76266.83  | 117915.95 |
| 19     | 64701.16  | 84856.19 | 41     | 76248.01  | 117846.44 |
| 20     | 64723.34  | 84906.24 | 40     | 76229.19  | 117776.98 |
| 21     | 64745.51  | 84956.31 | 39     | 76210.36  | 117707.56 |
| 22     | 64767.67  | 85006.40 | 38     | 76191.52  | 117638.20 |
| 23     | 64789.83  | 85056.52 | 37     | 76172.68  | 117568.88 |
| 24     | 64811.99  | 85106.67 | 36     | 76153.83  | 117499.60 |
| 25     | 64834.14  | 85156.84 | 35     | 76134.97  | 117430.38 |
| 26     | 64856.28  | 85207.04 | 34     | 76116.11  | 117361.20 |
| 27     | 64878.42  | 85257.26 | 33     | 76097.24  | 117292.07 |
| 28     | 64900.55  | 85307.50 | 32     | 76078.37  | 117222.98 |
| 29     | 64922.68  | 85357.77 | 31     | 76059.49  | 117153.95 |
| 30     | 64944.80  | 85408.07 | 30     | 76040.60  | 117084.96 |



| Minut. | 40. Grad. |          | Minut. | 49. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 64944.80  | 85408.07 | 30     | 76040.60  | 117084.96 |
| 31     | 64966.92  | 85458.39 | 29     | 76021.70  | 117016.01 |
| 32     | 64989.03  | 85508.73 | 28     | 76002.80  | 116947.12 |
| 33     | 65011.14  | 85559.10 | 27     | 75983.89  | 116878.27 |
| 34     | 65033.24  | 85609.50 | 26     | 75964.98  | 116809.47 |
| 35     | 65055.33  | 85659.92 | 25     | 75946.06  | 116740.71 |
| 36     | 65077.42  | 85710.37 | 24     | 75927.13  | 116672.00 |
| 37     | 65099.50  | 85760.84 | 23     | 75908.20  | 116603.34 |
| 38     | 65121.58  | 85811.33 | 22     | 75889.26  | 116534.72 |
| 39     | 65143.66  | 85861.85 | 21     | 75870.31  | 116466.15 |
| 40     | 65165.72  | 85912.40 | 20     | 75851.36  | 116397.63 |
| 41     | 65187.78  | 85962.97 | 19     | 75832.40  | 116329.16 |
| 42     | 65209.84  | 86013.57 | 18     | 75813.43  | 116260.73 |
| 43     | 65231.89  | 86064.19 | 17     | 75794.46  | 116192.34 |
| 44     | 65253.94  | 86114.84 | 16     | 75775.48  | 116124.00 |
| 45     | 65275.98  | 86165.51 | 15     | 75756.50  | 116055.71 |
| 46     | 65298.01  | 86216.21 | 14     | 75737.51  | 115987.47 |
| 47     | 65320.04  | 86266.93 | 13     | 75718.51  | 115919.27 |
| 48     | 65342.06  | 86317.68 | 12     | 75699.51  | 115851.11 |
| 49     | 65364.08  | 86368.46 | 11     | 75680.49  | 115783.01 |
| 50     | 65386.09  | 86419.26 | 10     | 75661.48  | 115714.95 |
| 51     | 65408.10  | 86470.09 | 9      | 75642.45  | 115646.93 |
| 52     | 65430.10  | 86520.94 | 8      | 75623.42  | 115578.96 |
| 53     | 65452.09  | 86571.81 | 7      | 75604.39  | 115511.04 |
| 54     | 65474.08  | 86622.71 | 6      | 75585.35  | 115443.16 |
| 55     | 65496.06  | 86673.64 | 5      | 75566.30  | 115375.32 |
| 56     | 65518.04  | 86724.60 | 4      | 75547.24  | 115307.54 |
| 57     | 65540.02  | 86775.58 | 3      | 75528.18  | 115239.79 |
| 58     | 65561.98  | 86826.59 | 2      | 75509.11  | 115172.10 |
| 59     | 65583.95  | 86877.62 | 1      | 75490.04  | 115104.45 |
| 60     | 65605.90  | 86928.68 | 0      | 75470.96  | 115036.84 |



| Minut. | 41. Grad. |          | Minut. | 48. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 65605.90  | 86928.68 | 60     | 75470.96  | 115036.84 |
| 1      | 65627.85  | 86979.76 | 59     | 75451.87  | 114969.28 |
| 2      | 65649.80  | 87030.87 | 58     | 75432.78  | 114901.76 |
| 3      | 65671.74  | 87082.00 | 57     | 75413.68  | 114834.29 |
| 4      | 65693.67  | 87133.16 | 56     | 75394.57  | 114766.87 |
| 5      | 65715.60  | 87184.35 | 55     | 75375.46  | 114699.49 |
| 6      | 65737.52  | 87235.56 | 54     | 75356.34  | 114632.15 |
| 7      | 65759.44  | 87286.80 | 53     | 75337.21  | 114564.86 |
| 8      | 65781.35  | 87338.06 | 52     | 75318.08  | 114497.62 |
| 9      | 65803.26  | 87389.35 | 51     | 75298.94  | 114430.41 |
| 10     | 65825.16  | 87440.67 | 50     | 75279.80  | 114363.26 |
| 11     | 65847.06  | 87492.01 | 49     | 75260.65  | 114296.15 |
| 12     | 65868.95  | 87543.38 | 48     | 75241.49  | 114229.08 |
| 13     | 65890.83  | 87594.78 | 47     | 75222.33  | 114162.06 |
| 14     | 65912.71  | 87646.20 | 46     | 75203.16  | 114095.08 |
| 15     | 65934.58  | 87697.65 | 45     | 75183.98  | 114028.15 |
| 16     | 65956.45  | 87749.12 | 44     | 75164.80  | 113961.26 |
| 17     | 65978.31  | 87800.62 | 43     | 75145.61  | 113894.41 |
| 18     | 66000.17  | 87852.15 | 42     | 75126.41  | 113827.61 |
| 19     | 66022.02  | 87903.70 | 41     | 75107.21  | 113760.85 |
| 20     | 66043.86  | 87955.28 | 40     | 75088.00  | 113694.14 |
| 21     | 66065.70  | 88006.89 | 39     | 75068.79  | 113627.47 |
| 22     | 66087.54  | 88058.52 | 38     | 75049.57  | 113560.85 |
| 23     | 66109.36  | 88110.18 | 37     | 75030.34  | 113494.27 |
| 24     | 66131.19  | 88161.86 | 36     | 75011.11  | 113427.73 |
| 25     | 66153.00  | 88213.57 | 35     | 74991.87  | 113361.24 |
| 26     | 66174.81  | 88265.31 | 34     | 74972.62  | 113294.79 |
| 27     | 66196.62  | 88317.07 | 33     | 74953.37  | 113228.39 |
| 28     | 66218.42  | 88368.86 | 32     | 74934.11  | 113162.03 |
| 29     | 66240.22  | 88420.68 | 31     | 74914.84  | 113095.71 |
| 30     | 66262.00  | 88472.53 | 30     | 74895.57  | 113029.44 |



| Minut. | 41. Grad. |          | Minut. | 48. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 66262.00  | 88472.53 | 30     | 74895.57  | 113029.44 |
| 31     | 66283.79  | 88524.40 | 29     | 74876.29  | 112963.21 |
| 32     | 66305.57  | 88576.30 | 28     | 74857.01  | 112897.02 |
| 33     | 66327.34  | 88628.22 | 27     | 74837.72  | 112830.88 |
| 34     | 66349.10  | 88680.17 | 26     | 74818.42  | 112764.78 |
| 35     | 66370.87  | 88732.15 | 25     | 74799.12  | 112698.72 |
| 36     | 66392.62  | 88784.16 | 24     | 74779.81  | 112632.71 |
| 37     | 66414.37  | 88836.20 | 23     | 74760.49  | 112566.74 |
| 38     | 66436.11  | 88888.26 | 22     | 74741.17  | 112500.81 |
| 39     | 66457.85  | 88940.34 | 21     | 74721.84  | 112434.93 |
| 40     | 66479.59  | 88992.45 | 20     | 74702.51  | 112369.09 |
| 41     | 66501.31  | 89044.59 | 19     | 74683.17  | 112303.29 |
| 42     | 66523.04  | 89096.75 | 18     | 74663.82  | 112237.54 |
| 43     | 66544.75  | 89148.94 | 17     | 74644.46  | 112171.83 |
| 44     | 66566.46  | 89201.16 | 16     | 74625.10  | 112106.16 |
| 45     | 66588.17  | 89253.41 | 15     | 74605.74  | 112040.53 |
| 46     | 66609.87  | 89305.69 | 14     | 74586.36  | 111974.95 |
| 47     | 66631.56  | 89357.99 | 13     | 74566.99  | 111909.41 |
| 48     | 66653.25  | 89410.32 | 12     | 74547.60  | 111843.91 |
| 49     | 66674.93  | 89462.68 | 11     | 74528.21  | 111778.46 |
| 50     | 66696.61  | 89515.06 | 10     | 74508.81  | 111713.05 |
| 51     | 66718.28  | 89567.47 | 9      | 74489.41  | 111647.68 |
| 52     | 66739.94  | 89619.91 | 8      | 74469.99  | 111582.35 |
| 53     | 66761.60  | 89672.38 | 7      | 74450.58  | 111517.06 |
| 54     | 66783.26  | 89724.87 | 6      | 74431.15  | 111451.82 |
| 55     | 66804.90  | 89777.39 | 5      | 74411.72  | 111386.62 |
| 56     | 66826.55  | 89829.94 | 4      | 74392.29  | 111321.46 |
| 57     | 66848.18  | 89882.52 | 3      | 74372.85  | 111256.35 |
| 58     | 66869.81  | 89935.12 | 2      | 74353.40  | 111191.27 |
| 59     | 66891.44  | 89987.75 | 1      | 74333.94  | 111126.24 |
| 60     | 66913.06  | 90040.41 | 0      | 74314.48  | 111061.25 |



| Minut. | 42. Grad. |          | Minut. | 47. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 66913.06  | 90040.41 | 60     | 74314.48  | 111061.25 |
| 1      | 66934.67  | 90093.09 | 59     | 74295.01  | 110996.30 |
| 2      | 66956.28  | 90145.80 | 58     | 74275.54  | 110931.40 |
| 3      | 66977.89  | 90198.54 | 57     | 74256.06  | 110866.53 |
| 4      | 66999.48  | 90251.31 | 56     | 74236.57  | 110801.71 |
| 5      | 67021.08  | 90304.11 | 55     | 74217.08  | 110736.93 |
| 6      | 67042.66  | 90356.94 | 54     | 74197.58  | 110672.19 |
| 7      | 67064.24  | 90409.79 | 53     | 74178.08  | 110607.50 |
| 8      | 67085.82  | 90462.67 | 52     | 74158.57  | 110542.84 |
| 9      | 67107.39  | 90515.58 | 51     | 74139.05  | 110478.23 |
| 10     | 67128.95  | 90568.51 | 50     | 74119.53  | 110413.64 |
| 11     | 67150.51  | 90621.47 | 49     | 74100.00  | 110349.12 |
| 12     | 67172.06  | 90674.46 | 48     | 74080.46  | 110284.63 |
| 13     | 67193.61  | 90727.48 | 47     | 74060.92  | 110220.19 |
| 14     | 67215.15  | 90780.53 | 46     | 74041.37  | 110155.78 |
| 15     | 67236.68  | 90833.60 | 45     | 74021.81  | 110091.41 |
| 16     | 67258.21  | 90886.71 | 44     | 74002.25  | 110027.09 |
| 17     | 67279.73  | 90939.84 | 43     | 73982.68  | 109962.81 |
| 18     | 67301.25  | 90993.00 | 42     | 73963.11  | 109898.56 |
| 19     | 67322.76  | 91046.19 | 41     | 73943.53  | 109834.36 |
| 20     | 67344.27  | 91099.41 | 40     | 73923.94  | 109770.20 |
| 21     | 67365.77  | 91152.65 | 39     | 73904.35  | 109706.08 |
| 22     | 67387.27  | 91205.92 | 38     | 73884.75  | 109642.01 |
| 23     | 67408.76  | 91259.22 | 37     | 73865.15  | 109577.97 |
| 24     | 67430.24  | 91312.55 | 36     | 73845.53  | 109513.97 |
| 25     | 67451.72  | 91365.91 | 35     | 73825.92  | 109450.02 |
| 26     | 67473.19  | 91419.29 | 34     | 73806.29  | 109386.10 |
| 27     | 67494.66  | 91472.70 | 33     | 73786.66  | 109322.23 |
| 28     | 67516.12  | 91526.15 | 32     | 73767.02  | 109258.40 |
| 29     | 67537.57  | 91579.62 | 31     | 73747.38  | 109194.60 |
| 30     | 67559.02  | 91633.12 | 30     | 73727.73  | 109130.85 |



| Minut. | 42. Grad. |          | Minut. | 47. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 67559.02  | 91633.12 | 30     | 73727.73  | 109130.85 |
| 31     | 67580.46  | 91686.65 | 29     | 73708.08  | 109067.14 |
| 32     | 67601.90  | 91740.20 | 28     | 73688.42  | 109003.47 |
| 33     | 67623.33  | 91793.79 | 27     | 73668.75  | 108939.83 |
| 34     | 67644.76  | 91847.40 | 26     | 73649.07  | 108876.24 |
| 35     | 67666.18  | 91901.04 | 25     | 73629.39  | 108812.69 |
| 36     | 67687.60  | 91954.71 | 24     | 73609.71  | 108749.18 |
| 37     | 67709.01  | 92008.41 | 23     | 73590.02  | 108685.71 |
| 38     | 67730.41  | 92062.14 | 22     | 73570.32  | 108622.28 |
| 39     | 67751.81  | 92115.90 | 21     | 73550.61  | 108558.89 |
| 40     | 67773.20  | 92169.68 | 20     | 73530.90  | 108495.54 |
| 41     | 67794.59  | 92223.50 | 19     | 73511.18  | 108432.23 |
| 42     | 67815.97  | 92277.34 | 18     | 73491.46  | 108368.96 |
| 43     | 67837.34  | 92331.22 | 17     | 73471.73  | 108305.73 |
| 44     | 67858.71  | 92385.12 | 16     | 73451.99  | 108242.54 |
| 45     | 67880.07  | 92439.05 | 15     | 73432.25  | 108179.39 |
| 46     | 67901.43  | 92493.01 | 14     | 73412.50  | 108116.28 |
| 47     | 67922.78  | 92547.00 | 13     | 73392.75  | 108053.21 |
| 48     | 67944.13  | 92601.01 | 12     | 73372.99  | 107990.18 |
| 49     | 67965.47  | 92655.06 | 11     | 73353.22  | 107927.18 |
| 50     | 67986.81  | 92709.14 | 10     | 73333.45  | 107864.23 |
| 51     | 68008.13  | 92763.24 | 9      | 73313.67  | 107801.32 |
| 52     | 68029.46  | 92817.38 | 8      | 73293.88  | 107738.44 |
| 53     | 68050.78  | 92871.54 | 7      | 73274.09  | 107675.61 |
| 54     | 68072.09  | 92925.73 | 6      | 73254.29  | 107612.82 |
| 55     | 68093.39  | 92979.96 | 5      | 73234.48  | 107550.06 |
| 56     | 68114.69  | 93034.21 | 4      | 73214.67  | 107487.34 |
| 57     | 68135.99  | 93088.49 | 3      | 73194.86  | 107424.67 |
| 58     | 68157.28  | 93142.80 | 2      | 73175.03  | 107362.03 |
| 59     | 68178.56  | 93197.14 | 1      | 73155.21  | 107299.43 |
| 60     | 68199.84  | 93251.51 | 0      | 73135.37  | 107236.87 |



| Minut. | 43. Grad. |          | Minut. | 46. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 68199.84  | 93251.51 | 60     | 73135.37  | 107236.87 |
| 1      | 68221.11  | 93305.91 | 59     | 73115.53  | 107174.35 |
| 2      | 68242.37  | 93360.34 | 58     | 73095.68  | 107111.87 |
| 3      | 68263.63  | 93414.79 | 57     | 73075.83  | 107049.43 |
| 4      | 68284.89  | 93469.28 | 56     | 73055.97  | 106987.02 |
| 5      | 68306.13  | 93523.80 | 55     | 73036.10  | 106924.66 |
| 6      | 68327.38  | 93578.34 | 54     | 73016.23  | 106862.33 |
| 7      | 68348.61  | 93632.92 | 53     | 72996.35  | 106800.04 |
| 8      | 68369.84  | 93687.53 | 52     | 72976.46  | 106737.79 |
| 9      | 68391.07  | 93742.16 | 51     | 72956.57  | 106675.58 |
| 10     | 68412.29  | 93796.83 | 50     | 72936.68  | 106613.41 |
| 11     | 68433.50  | 93851.52 | 49     | 72916.77  | 106551.28 |
| 12     | 68454.71  | 93906.25 | 48     | 72896.86  | 106489.18 |
| 13     | 68475.91  | 93961.01 | 47     | 72876.95  | 106427.13 |
| 14     | 68497.11  | 94015.79 | 46     | 72857.02  | 106365.11 |
| 15     | 68518.30  | 94070.61 | 45     | 72837.10  | 106303.13 |
| 16     | 68539.48  | 94125.45 | 44     | 72817.16  | 106241.19 |
| 17     | 68560.66  | 94180.33 | 43     | 72797.22  | 106179.29 |
| 18     | 68581.83  | 94235.23 | 42     | 72777.28  | 106117.42 |
| 19     | 68603.00  | 94290.17 | 41     | 72757.32  | 106055.60 |
| 20     | 68624.16  | 94355.13 | 40     | 72737.36  | 105993.81 |
| 21     | 68645.32  | 94400.13 | 39     | 72717.40  | 105932.06 |
| 22     | 68666.47  | 94455.16 | 38     | 72697.43  | 105870.34 |
| 23     | 68687.61  | 94510.21 | 37     | 72677.45  | 105808.67 |
| 24     | 68708.75  | 94565.30 | 36     | 72657.47  | 105747.03 |
| 25     | 68729.88  | 94620.42 | 35     | 72637.48  | 105685.44 |
| 26     | 68751.01  | 94675.56 | 34     | 72617.48  | 105623.88 |
| 27     | 68772.13  | 94730.74 | 33     | 72597.48  | 105562.35 |
| 28     | 68793.24  | 94785.95 | 32     | 72577.47  | 105500.87 |
| 29     | 68814.35  | 94841.19 | 31     | 72557.46  | 105439.42 |
| 30     | 68835.46  | 94896.46 | 30     | 72537.44  | 105378.01 |

N. 298.



| Minut. | 43. Grad. |          | Minut. | 46. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 30     | 68835.46  | 94896.46 | 30     | 72537.44  | 105378.01 |
| 31     | 68856.55  | 94951.76 | 29     | 72517.41  | 105316.64 |
| 32     | 68877.65  | 95007.09 | 28     | 72497.38  | 105255.31 |
| 33     | 68898.72  | 95062.45 | 27     | 72473.47  | 105194.01 |
| 34     | 68919.81  | 95117.84 | 26     | 72457.29  | 105132.75 |
| 35     | 68940.89  | 95173.26 | 25     | 72437.24  | 105071.53 |
| 36     | 68961.95  | 95228.71 | 24     | 72417.18  | 105010.34 |
| 37     | 68983.02  | 95284.20 | 23     | 72397.12  | 104949.20 |
| 38     | 69004.07  | 95339.71 | 22     | 72377.05  | 104888.09 |
| 39     | 69025.12  | 95395.26 | 21     | 72356.98  | 104827.02 |
| 40     | 69046.17  | 95450.83 | 20     | 72336.90  | 104765.98 |
| 41     | 69067.21  | 95506.44 | 19     | 72316.81  | 104704.98 |
| 42     | 69088.24  | 95562.08 | 18     | 72296.71  | 104644.02 |
| 43     | 69109.27  | 95617.74 | 17     | 72276.61  | 104583.10 |
| 44     | 69130.29  | 95673.44 | 16     | 72256.51  | 104522.21 |
| 45     | 69151.31  | 95729.17 | 15     | 72236.40  | 104461.36 |
| 46     | 69172.32  | 95784.94 | 14     | 72216.28  | 104400.55 |
| 47     | 69193.32  | 95840.73 | 13     | 72196.15  | 104339.77 |
| 48     | 69214.32  | 95896.55 | 12     | 72176.02  | 104279.04 |
| 49     | 69235.31  | 95952.41 | 11     | 72155.89  | 104218.33 |
| 50     | 69256.30  | 96008.29 | 10     | 72135.74  | 104157.67 |
| 51     | 69277.28  | 96064.21 | 9      | 72115.59  | 104097.04 |
| 52     | 69298.25  | 96120.16 | 8      | 72095.44  | 104036.45 |
| 53     | 69319.22  | 96176.14 | 7      | 72075.28  | 103975.89 |
| 54     | 69340.18  | 96232.15 | 6      | 72055.11  | 103915.37 |
| 55     | 69361.14  | 96288.19 | 5      | 72034.94  | 103854.89 |
| 56     | 69382.09  | 96344.27 | 4      | 72014.76  | 103794.45 |
| 57     | 69403.04  | 96400.37 | 3      | 71994.57  | 103734.04 |
| 58     | 69423.98  | 96456.51 | 2      | 71974.38  | 103673.67 |
| 59     | 69444.91  | 96512.68 | 1      | 71954.18  | 103613.33 |
| 60     | 69465.84  | 96568.88 | 0      | 71933.98  | 103553.03 |



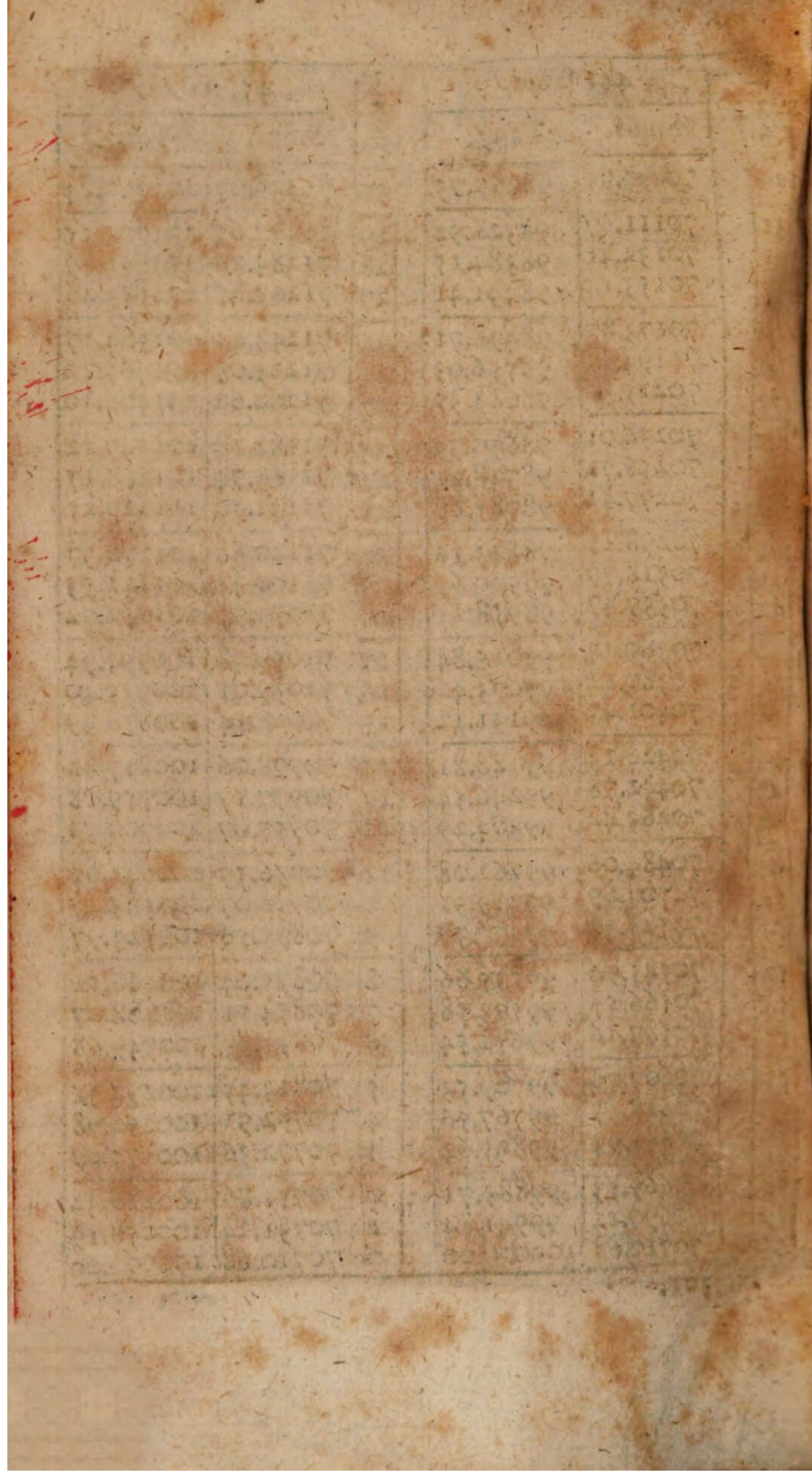
| Minut. | 44. Grad. |          | Minut. | 43. Grad. |           |
|--------|-----------|----------|--------|-----------|-----------|
|        | Sinus.    | Tang.    |        | Sinus.    | Tang.     |
| 0      | 69465.84  | 96568.88 | 60     | 71933.98  | 103553.03 |
| 1      | 69486.76  | 96625.11 | 59     | 71913.77  | 103492.77 |
| 2      | 69507.67  | 96681.37 | 58     | 71893.55  | 103432.54 |
| 3      | 69528.58  | 96737.67 | 57     | 71873.33  | 103372.35 |
| 4      | 69549.49  | 96794.00 | 56     | 71853.10  | 103312.20 |
| 5      | 69570.39  | 96850.35 | 55     | 71832.87  | 103252.08 |
| 6      | 69591.28  | 96906.74 | 54     | 71812.63  | 103191.99 |
| 7      | 69612.17  | 96963.16 | 53     | 71792.38  | 103131.95 |
| 8      | 69633.05  | 97019.62 | 52     | 71772.13  | 103071.94 |
| 9      | 69653.92  | 97076.10 | 51     | 71751.87  | 103011.96 |
| 10     | 69674.79  | 97132.62 | 50     | 71731.61  | 102952.03 |
| 11     | 69695.65  | 97189.17 | 49     | 71711.34  | 102892.12 |
| 12     | 69716.51  | 97245.75 | 48     | 71691.06  | 102832.26 |
| 13     | 69737.36  | 97302.36 | 47     | 71670.78  | 102772.43 |
| 14     | 69758.21  | 97359.01 | 46     | 71650.49  | 102712.63 |
| 15     | 69779.05  | 97415.69 | 45     | 71630.19  | 102652.87 |
| 16     | 69799.88  | 97472.40 | 44     | 71609.89  | 102593.15 |
| 17     | 69820.71  | 97529.14 | 43     | 71589.59  | 102533.46 |
| 18     | 69841.53  | 97585.91 | 42     | 71569.27  | 102473.81 |
| 19     | 69862.34  | 97642.72 | 41     | 71548.95  | 102414.19 |
| 20     | 69883.15  | 97699.56 | 40     | 71528.63  | 102354.61 |
| 21     | 69903.96  | 97756.43 | 39     | 71508.30  | 102295.06 |
| 22     | 69924.76  | 97813.33 | 38     | 71487.96  | 102235.55 |
| 23     | 69945.55  | 97870.27 | 37     | 71467.62  | 102176.08 |
| 24     | 69966.33  | 97927.24 | 36     | 71447.27  | 102116.64 |
| 25     | 69987.11  | 97984.24 | 35     | 71426.91  | 102057.23 |
| 26     | 70007.89  | 98041.27 | 34     | 71406.55  | 101997.86 |
| 27     | 70028.66  | 98098.33 | 33     | 71386.18  | 101938.53 |
| 28     | 70049.42  | 98155.43 | 32     | 71365.81  | 101879.23 |
| 29     | 70070.18  | 98212.56 | 31     | 71345.43  | 101819.97 |
| 30     | 70090.93  | 98269.73 | 30     | 71325.04  | 101760.74 |

N. 300.



| Minut. | 44. Grad. |           | Minut. | 45. Grad. |           |
|--------|-----------|-----------|--------|-----------|-----------|
|        | Sinus.    | Tang.     |        | Sinus.    | Tang.     |
| 30     | 70090.93  | 98269.73  | 30     | 71325.04  | 101760.74 |
| 31     | 70111.67  | 98326.92  | 29     | 71304.65  | 101701.55 |
| 32     | 70132.41  | 98384.15  | 28     | 71284.26  | 101642.39 |
| 33     | 70153.14  | 98441.41  | 27     | 71263.85  | 101583.26 |
| 34     | 70173.87  | 98498.71  | 26     | 71243.44  | 101524.17 |
| 35     | 70194.59  | 98556.03  | 25     | 71223.03  | 101465.12 |
| 36     | 70215.30  | 98613.39  | 24     | 71202.60  | 101406.10 |
| 37     | 70236.01  | 98670.79  | 23     | 71182.18  | 101347.12 |
| 38     | 70256.72  | 98728.21  | 22     | 71161.74  | 101288.17 |
| 39     | 70277.41  | 98785.67  | 21     | 71141.30  | 101229.25 |
| 40     | 70298.11  | 98843.16  | 20     | 71120.86  | 101170.37 |
| 41     | 70318.79  | 98900.69  | 19     | 71100.41  | 101111.53 |
| 42     | 70339.47  | 98958.25  | 18     | 71079.95  | 101052.72 |
| 43     | 70360.14  | 99015.84  | 17     | 71059.48  | 100993.94 |
| 44     | 70380.81  | 99073.46  | 16     | 71039.01  | 100935.20 |
| 45     | 70401.47  | 99131.12  | 15     | 71018.54  | 100876.49 |
| 46     | 70422.13  | 99188.81  | 14     | 70998.06  | 100817.82 |
| 47     | 70442.78  | 99246.54  | 13     | 70977.57  | 100759.18 |
| 48     | 70463.42  | 99304.29  | 12     | 70957.07  | 100700.58 |
| 49     | 70484.06  | 99362.08  | 11     | 70936.57  | 100642.01 |
| 50     | 70504.69  | 99419.91  | 10     | 70916.07  | 100583.47 |
| 51     | 70525.32  | 99477.77  | 9      | 70895.56  | 100524.97 |
| 52     | 70545.94  | 99535.66  | 8      | 70875.04  | 100466.51 |
| 53     | 70566.55  | 99593.58  | 7      | 70854.51  | 100408.07 |
| 54     | 70587.16  | 99651.54  | 6      | 70833.98  | 100349.68 |
| 55     | 70607.76  | 99709.53  | 5      | 70813.45  | 100291.31 |
| 56     | 70628.35  | 99767.56  | 4      | 70792.91  | 100232.98 |
| 57     | 70648.94  | 99825.62  | 3      | 70772.36  | 100174.69 |
| 58     | 70669.53  | 99883.71  | 2      | 70751.80  | 100116.42 |
| 59     | 70690.11  | 99941.84  | 1      | 70731.24  | 100058.19 |
| 60     | 70710.68  | 100000.00 | 0      | 70710.68  | 100000.00 |























Wolff, Christian von,

Zu der Trigonometrie und Ausziehung der Wurtzeln nöthige Tafeln Darinnen  
Die Sinus und Tangentes für jede Minute des Quadrantens Nebst Ihren  
Logarithmis und den Logarithmis der gemeinen Zahlen von 1. biß 10000. Wie  
auch Die Quadrat- und Cubic-Zahlen von 1. biß 10000. enthalten sind,  
Nebenst Einer allgemeinen Regel, alle geradelinichte und Sphärische

Halle im Magdeburgischen 1728

Math.p. 644

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